Table 1: Accuracy

Majority Voting ⁽¹⁾	$\begin{array}{c} \text{Avg} \\ \text{Aggregation}^{(2)} \end{array}$	Decision Templates ⁽³⁾	OPTICS Decision Templates ⁽⁴⁾	Weighted OPTICS Decision Templates ⁽⁵⁾
0.97 ± 0.02	0.97 + 0.02	0.97 ± 0.02	0.97 ± 0.01	0.97 ± 0.02
0.80 ± 0.09	0.79 ± 0.02	0.85 ± 0.03	0.83 ± 0.02	0.85 ± 0.05
0.80 ± 0.11	0.80 ± 0.12	0.90 ± 0.04	0.94 ± 0.02	0.81 ± 0.09
0.87 ± 0.03	0.86 ± 0.03	0.86 ± 0.03	0.89 ± 0.03	0.83 ± 0.05
0.89 ± 0.02	0.89 ± 0.02	0.88 ± 0.03	0.92 ± 0.02	0.88 ± 0.03
0.64 ± 0.04	0.64 ± 0.04	0.64 ± 0.04	0.73 ± 0.04	0.65 ± 0.04
0.58 ± 0.07	0.57 ± 0.07	0.59 ± 0.07	0.66 ± 0.02	0.57 ± 0.05
0.92 ± 0.02	0.91 ± 0.02	0.92 ± 0.02	0.94 ± 0.01	0.88 ± 0.05
0.73 ± 0.02	0.73 ± 0.02	0.72 ± 0.03	0.64 ± 0.04	0.65 ± 0.09
1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
0.96 ± 0.02	0.96 ± 0.02	0.97 ± 0.02	0.98 ± 0.02	0.95 ± 0.02
0.98 ± 0.01	0.98 ± 0.01	0.98 ± 0.01	0.98 ± 0.01	0.97 ± 0.02
0.90 ± 0.01	0.90 ± 0.01	0.90 ± 0.01	0.92 ± 0.01	0.61 ± 0.05
0.75 ± 0.02	0.74 ± 0.02	0.74 ± 0.02	0.65 ± 0.04	0.73 ± 0.02
0.80 ± 0.03	0.80 ± 0.03	0.81 ± 0.03	0.96 ± 0.01	0.82 ± 0.04 $_{1, 2, 3}$
0.66 ± 0.02	0.66 ± 0.02	0.67 ± 0.02	0.79 ± 0.04	0.67 ± 0.02
0.67 ± 0.01	0.67 ± 0.01	0.68 ± 0.01	0.69 ± 0.02	0.61 ± 0.05
0.78 ± 0.06	0.78 ± 0.06	0.79 ± 0.05	0.89 ± 0.03	0.79 ± 0.07
0.67 ± 0.02	0.67 ± 0.02	0.68 ± 0.02	0.67 ± 0.03	0.60 ± 0.05
0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	0.95 ± 0.01
0.31 ± 0.01	0.31 ± 0.01	0.57 ± 0.16	0.70 ± 0.01	0.60 ± 0.07
0.51 ± 0.30	0.48 ± 0.26	0.88 ± 0.09	0.92 ± 0.01 $1, 2, 3$	0.89 ± 0.06 $1, 2$
	Voting(i) 0.97 ± 0.02 0.80 ± 0.09 0.80 ± 0.11 0.87 ± 0.03 0.89 ± 0.02 0.64 ± 0.04 0.58 ± 0.07 0.92 ± 0.02 0.73 ± 0.02 1.00 ± 0.00 0.96 ± 0.02 0.98 ± 0.01 0.90 ± 0.01 0.75 ± 0.02 0.80 ± 0.03 0.66 ± 0.02 0.80 ± 0.03 0.66 ± 0.02 0.98 ± 0.01 0.90 ± 0.01	Voting(i) Aggregation(2) 0.97 ± 0.02 0.97 ± 0.02 0.80 ± 0.09 0.79 ± 0.10 0.80 ± 0.11 0.80 ± 0.12 0.87 ± 0.03 0.86 ± 0.03 0.89 ± 0.02 0.89 ± 0.02 0.64 ± 0.04 0.64 ± 0.04 0.58 ± 0.07 0.57 ± 0.07 0.92 ± 0.02 0.91 ± 0.02 0.73 ± 0.02 0.73 ± 0.02 4.5 0.02 0.96 ± 0.02 0.96 ± 0.02 0.98 ± 0.01 0.98 ± 0.01 0.90 ± 0.01 0.99 ± 0.01 0.75 ± 0.02 0.74 ± 0.02 4.5 0.80 ± 0.03 0.66 ± 0.02 0.66 ± 0.02 0.67 ± 0.01 0.67 ± 0.01 0.78 ± 0.06 0.78 ± 0.06 0.67 ± 0.02 0.67 ± 0.02 0.96 ± 0.01 0.96 ± 0.01 0.96 ± 0.01 0.96 ± 0.01 0.31 ± 0.01 0.31 ± 0.01 0.51 ± 0.30 0.48 ± 0.26	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Table 2: Sensitivity

		Table 2: Sens	sitivity		
Classifier	Majority Voting ⁽¹⁾	$\begin{array}{c} \operatorname{Avg} \\ \operatorname{Aggregation}^{(2)} \end{array}$	Decision Templates ⁽³⁾	OPTICS Decision Templates ⁽⁴⁾	Weighted OPTICS Decision Templates $^{(5)}$
Dataset					
ecoli-0_vs_1	0.93 ± 0.05	0.93 ± 0.05	0.93 ± 0.05	0.94 ± 0.04	0.93 ± 0.06
ecoli1	0.90 ± 0.05	0.91 ± 0.05	0.90 ± 0.04	0.68 ± 0.18	0.90 ± 0.03
ecoli2	0.92 ± 0.05	0.93 ± 0.04 $_{3, 4}$	0.91 ± 0.04	0.81 ± 0.08	0.92 ± 0.04
ecoli3	0.92 ± 0.06	0.91 ± 0.07	0.93 ± 0.06	0.52 ± 0.24	0.93 ± 0.05
glass-0-1-2-3_vs_4-5-6	0.77 ± 0.09	0.80 ± 0.08	0.82 ± 0.08 _{1, 2}	0.84 ± 0.09	0.90 ± 0.09 $1, 2, 3$
glass0	0.90 ± 0.07 $_{3, 4}$	$0.90 \pm 0.07 \atop 3, 4, 5$	0.86 ± 0.08	0.43 ± 0.17	0.79 ± 0.18
glass1	0.90 ± 0.04 $_{3, 4}$	0.90 ± 0.04 $_{3, 4}$	0.82 ± 0.07	0.52 ± 0.12	0.76 ± 0.23
glass6	0.86 ± 0.07	0.86 ± 0.07	0.88 ± 0.07	0.81 ± 0.12	0.93 ± 0.06 $_{1, 2, 3, 4}$
haberman	0.41 ± 0.11	0.42 ± 0.11	0.45 ± 0.11 _{1, 2, 4}	0.35 ± 0.08	0.43 ± 0.16
iris0	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
new-thyroid1	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
new-thyroid2	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	0.99 ± 0.02	1.00 ± 0.00
page-blocks0	0.60 ± 0.02	0.60 ± 0.02	0.67 ± 0.02	0.57 ± 0.13	$0.74 \pm 0.16 \\ {}_{1,\ 2,\ 4}$
pima	0.67 ± 0.03	0.68 ± 0.02	0.69 ± 0.03 _{1, 2, 4, 5}	0.59 ± 0.08	0.67 ± 0.04
segment0	0.98 ± 0.01	0.98 ± 0.01	0.98 ± 0.01	0.80 ± 0.05	0.98 ± 0.01
vehicle0	0.92 ± 0.04 $_{3, 4, 5}$	0.92 ± 0.04 $_{3, 4, 5}$	0.89 ± 0.04 _{4, 5}	0.53 ± 0.13	0.86 ± 0.06
vehicle1	0.70 ± 0.06 $_{3, 4}$	0.70 ± 0.06 $_{3, 4}$	0.69 ± 0.05	0.48 ± 0.09	0.72 ± 0.08
vehicle2	0.71 ± 0.08	0.72 ± 0.08	0.75 ± 0.07	0.81 ± 0.08 $_{1, 2, 3, 5}$	0.71 ± 0.07
vehicle3	0.66 ± 0.04	0.67 ± 0.04	0.65 ± 0.04	0.37 ± 0.08	0.66 ± 0.06
wisconsin	0.98 ± 0.01	0.98 ± 0.01	0.98 ± 0.01	0.97 ± 0.01	0.99 ± 0.01 _{1, 2, 3, 4}
yeast1	0.99 ± 0.01 $_{3, 4, 5}$	$0.99 \pm 0.01 \atop \substack{3,\ 4,\ 5}$	0.81 ± 0.12	0.39 ± 0.04	0.75 ± 0.09
yeast3	$0.96 \pm 0.03 \atop 3, 4, 5$	$0.97 \pm 0.03 \atop \substack{3,\ 4,\ 5}$	0.91 ± 0.04	0.59 ± 0.10	0.90 ± 0.03

Table 3: Specificity

Classifier	Majority	Table 3: Spec	Decision	OPTICS	Weighted
Ciassillei	Voting ⁽¹⁾	Aggregation ⁽²⁾	Templates ⁽³⁾	Decision Templates ⁽⁴⁾	OPTICS Decision Templates ⁽⁵⁾
Dataset					1
ecoli-0_vs_1	0.99 ± 0.02	0.99 ± 0.02	0.99 ± 0.02	0.99 ± 0.01	0.98 ± 0.03
ecoli1	0.77 ± 0.13	0.76 ± 0.14	0.84 ± 0.04	$0.88 \pm 0.05 \\ {}_{1,\ 2,\ 3,\ 5}$	0.84 ± 0.06
ecoli2	0.78 ± 0.14	0.77 ± 0.15	0.89 ± 0.04 _{1, 2, 5}	0.96 ± 0.02 $_{1, 2, 3, 5}$	0.79 ± 0.11
ecoli3	0.86 ± 0.03	0.86 ± 0.04	0.86 ± 0.03	0.93 ± 0.03 $1, 2, 3, 5$	0.82 ± 0.06
glass-0-1-2-3_vs_4-5-6	0.93 ± 0.03 $_{3, 5}$	0.91 ± 0.03	0.90 ± 0.03	0.94 ± 0.02 $_{2, 3, 5}$	0.88 ± 0.04
glass0	0.51 ± 0.06	0.51 ± 0.06	0.53 ± 0.06	0.87 ± 0.06 _{1, 2, 3, 5}	0.59 ± 0.09
glass1	0.40 ± 0.11	0.39 ± 0.10	0.46 ± 0.10	0.74 ± 0.07 $1, 2, 3, 5$	0.47 ± 0.20
glass6	0.93 ± 0.03	0.92 ± 0.03	0.93 ± 0.03	0.96 ± 0.02 $_{1, 2, 3, 5}$	0.87 ± 0.07
haberman	0.84 ± 0.06	0.84 ± 0.07	0.81 ± 0.06	0.75 ± 0.07	0.73 ± 0.16
iris0	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
new-thyroid1	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.02	$0.98 \pm 0.02 \\ {}_{1,\ 2,\ 3,\ 5}$	0.94 ± 0.02
new-thyroid2	0.97 ± 0.02	0.97 ± 0.02	0.97 ± 0.02	0.98 ± 0.01 $1, 2, 3, 5$	0.96 ± 0.03
page-blocks0	0.93 ± 0.01 $_{2, 3, 5}$	0.93 ± 0.01 $_{3, 5}$	0.93 ± 0.01	0.96 ± 0.01 $1, 2, 3, 5$	0.60 ± 0.06
pima	0.78 ± 0.03 $2, 3, 4, 5$	0.77 ± 0.03 $_{3, 4}$	0.77 ± 0.02	0.68 ± 0.04	0.76 ± 0.03
segment0	0.77 ± 0.04	0.77 ± 0.04	0.79 ± 0.04	$0.98 \pm 0.00 \\ {}_{1,\ 2,\ 3,\ 5}$	0.79 ± 0.04 $_{1, 2, 3}$
vehicle0	0.59 ± 0.03	0.58 ± 0.03	0.60 ± 0.03	0.87 ± 0.03 $1, 2, 3, 5$	0.61 ± 0.03 $1, 2, 3$
vehicle1	0.66 ± 0.02	0.65 ± 0.02	0.67 ± 0.02 $1, 2, 5$	0.77 ± 0.04	0.58 ± 0.06
vehicle2	0.81 ± 0.07	0.81 ± 0.07	0.80 ± 0.06	$\begin{array}{c} 1,2,3,5 \\ 0.92\pm0.03 \\ 1,2,3,5 \end{array}$	0.82 ± 0.09
vehicle3	0.68 ± 0.04	0.67 ± 0.04	0.68 ± 0.03	0.77 ± 0.06 $1, 2, 3, 5$	0.58 ± 0.09
wisconsin	0.95 ± 0.02	0.95 ± 0.02	0.95 ± 0.02	0.95 ± 0.02	0.92 ± 0.02
yeast1	0.03 ± 0.01	0.03 ± 0.01	0.47 ± 0.27	0.82 ± 0.02 $1, 2, 3, 5$	0.54 ± 0.12
yeast3	0.46 ± 0.34	0.42 ± 0.29	0.87 ± 0.10	0.96 ± 0.01 $1, 2, 3, 5$ $1, 2, 3, 5$	0.89 ± 0.07

		Table 4: Pre	cision		
Classifier	Majority Voting ⁽¹⁾	$\begin{array}{c} \text{Avg} \\ \text{Aggregation}^{(2)} \end{array}$	Decision Templates ⁽³⁾	OPTICS Decision Templates ⁽⁴⁾	Weighted OPTICS Decision Templates ⁽⁵⁾
Dataset					
ecoli-0_vs_1	0.98 ± 0.04	0.98 ± 0.04	0.98 ± 0.04	0.98 ± 0.03	0.97 ± 0.05
ecoli1	0.57 ± 0.11	0.56 ± 0.11	0.63 ± 0.05	0.63 ± 0.05	0.63 ± 0.07
ecoli2	0.49 ± 0.16	0.48 ± 0.16	0.62 ± 0.09 $1, 2, 5$	0.81 ± 0.07 $_{1,\ 2,\ 3,\ 5}$	0.48 ± 0.13
ecoli3	0.45 ± 0.07	0.43 ± 0.07	0.44 ± 0.06	0.46 ± 0.16	0.40 ± 0.09
glass-0-1-2-3_vs_4-5-6	0.78 ± 0.06	0.75 ± 0.06	0.73 ± 0.06	0.82 ± 0.04 $_{3, 5}$	0.71 ± 0.06
glass0	0.47 ± 0.03	0.47 ± 0.03	0.47 ± 0.03	0.61 ± 0.07 $1, 2, 3, 5$	0.48 ± 0.05
glass1	0.46 ± 0.05	0.45 ± 0.04	0.46 ± 0.05	0.52 ± 0.04 $1, 2, 3, 5$	0.45 ± 0.06
glass6	0.68 ± 0.09	0.64 ± 0.08	0.67 ± 0.08	0.76 ± 0.06 $1, 2, 3, 5$	0.56 ± 0.13
haberman	0.50 ± 0.07 $_{4, 5}^{2, 3}$	0.50 ± 0.06 $_{3, 4, 5}$	0.48 ± 0.05	0.33 ± 0.05	0.40 ± 0.10
iris0	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
new-thyroid1	0.82 ± 0.06	0.82 ± 0.06	0.83 ± 0.06	0.92 ± 0.07	0.78 ± 0.06
new-thyroid2	0.87 ± 0.06	0.87 ± 0.06	0.87 ± 0.06	$\begin{array}{c} 1,2,3,5 \\ 0.92\pm0.05 \\ 1,2,3,5 \end{array}$	0.83 ± 0.09
page-blocks0	0.51 ± 0.03	0.50 ± 0.03	0.51 ± 0.02 $1, 2, 5$	0.61 ± 0.04	0.18 ± 0.04
pima	0.63 ± 0.03	0.62 ± 0.03	0.61 ± 0.02	0.49 ± 0.05	0.60 ± 0.03
segment0	0.42 ± 0.04	$^{3, 4, 5}_{0.42 \pm 0.04}$	0.44 ± 0.04	0.88 ± 0.03	0.45 ± 0.05
vehicle0	0.41 ± 0.02	0.41 ± 0.01	0.40 ± 0.02	0.55 ± 0.09	0.40 ± 0.02
vehicle1	0.42 ± 0.01	0.41 ± 0.01	0.42 ± 0.01	0.42 ± 0.03	0.37 ± 0.04
vehicle2	0.58 ± 0.09	0.58 ± 0.09	0.57 ± 0.07	0.78 ± 0.07	0.60 ± 0.10
vehicle3	0.41 ± 0.02	0.41 ± 0.02	0.41 ± 0.02	0.35 ± 0.04	0.35 ± 0.04
wisconsin	0.91 ± 0.02	0.91 ± 0.02	0.91 ± 0.02	0.91 ± 0.02	0.87 ± 0.03
yeast1	0.29 ± 0.00	0.29 ± 0.00	0.41 ± 0.08	0.47 ± 0.03	0.41 ± 0.04
yeast3	0.27 ± 0.18	0.22 ± 0.11	$0.51 \pm 0.11 \\ 1, 2$	0.65 ± 0.04 $1, 2, 3, 5$	$0.53 \pm 0.12 \\ 1, 2$

		Table 5: F1	score		
Classifier	Majority Voting ⁽¹⁾	$\begin{array}{c} \text{Avg} \\ \text{Aggregation}^{(2)} \end{array}$	Decision Templates ⁽³⁾	OPTICS Decision Templates ⁽⁴⁾	Weighted OPTICS Decision Templates $^{(5)}$
Dataset					-
ecoli-0_vs_1	0.95 ± 0.02	0.95 ± 0.02	0.95 ± 0.02	0.96 ± 0.02	0.95 ± 0.03
ecoli1	0.69 ± 0.08	0.69 ± 0.09	0.74 ± 0.04 _{1, 2, 4}	0.64 ± 0.09	$0.74 \pm 0.06 \\ {}_{1,\ 2,\ 4}$
ecoli2	0.62 ± 0.13	0.62 ± 0.14	0.73 ± 0.07 $_{1, 2, 5}$	0.81 ± 0.05 $1, 2, 3, 5$	0.62 ± 0.11
ecoli3	0.60 ± 0.06 _{2, 4, 5}	0.58 ± 0.06	0.59 ± 0.05 _{4, 5}	0.48 ± 0.18	0.55 ± 0.08
glass-0-1-2-3_vs_4-5-6	0.77 ± 0.04	0.77 ± 0.05	0.77 ± 0.06	0.83 ± 0.05	0.79 ± 0.05
glass0	0.62 ± 0.04	0.62 ± 0.04	0.61 ± 0.04	0.49 ± 0.14	0.59 ± 0.08
glass1	0.60 ± 0.05	0.60 ± 0.04	0.59 ± 0.05	0.51 ± 0.07	0.54 ± 0.07
glass6	0.75 ± 0.05	0.73 ± 0.05	0.75 ± 0.05 $_{2, 5}$	0.78 ± 0.04	0.69 ± 0.09
haberman	0.44 ± 0.06 $_{4, 5}$	0.44 ± 0.06 $_{4, 5}$	0.45 ± 0.06 $1, 2, 4, 5$	0.34 ± 0.05	0.38 ± 0.07
iris0	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
new-thyroid1	0.90 ± 0.04	0.90 ± 0.04	0.91 ± 0.04	0.95 ± 0.04 _{1, 2, 3, 5}	0.87 ± 0.04
new-thyroid2	0.93 ± 0.04	0.93 ± 0.04	0.93 ± 0.04	0.95 ± 0.02	0.91 ± 0.05
page-blocks0	0.55 ± 0.02	0.55 ± 0.02	0.58 ± 0.02 $_{1, 2, 5}$	0.58 ± 0.09	0.28 ± 0.06
pima	0.65 ± 0.02 $_{4, 5}$	0.65 ± 0.02	0.65 ± 0.02 $_{4, 5}$	0.54 ± 0.05	0.64 ± 0.02
segment0	0.59 ± 0.04	0.59 ± 0.04	0.60 ± 0.04	0.84 ± 0.03 $_{1, 2, 3, 5}$	0.61 ± 0.05 $_{1, 2, 3}$
vehicle0	0.56 ± 0.02	0.56 ± 0.02	0.56 ± 0.02	0.54 ± 0.11	0.55 ± 0.03
vehicle1	0.52 ± 0.03	0.52 ± 0.02	0.52 ± 0.02	0.44 ± 0.05	0.49 ± 0.05
vehicle2	0.63 ± 0.08	0.64 ± 0.07	0.65 ± 0.07	0.79 ± 0.05	0.65 ± 0.07
vehicle3	0.50 ± 0.01	0.50 ± 0.01	0.50 ± 0.01	0.35 ± 0.05	0.45 ± 0.03
wisconsin	0.94 ± 0.01	0.94 ± 0.01	0.94 ± 0.01	0.94 ± 0.01	0.93 ± 0.01
yeast1	0.45 ± 0.00	0.45 ± 0.00	0.54 ± 0.05	0.43 ± 0.03	0.53 ± 0.04
yeast3	0.39 ± 0.20	0.34 ± 0.14	0.65 ± 0.11 $1, 2$	0.61 ± 0.06	0.66 ± 0.10 $1, 2, 4$ $1, 2$

Table 6: Balanced Accuracy

	J	lable 6: Balance	a Accuracy		
Classifier Dataset	$\begin{array}{c} \text{Majority} \\ \text{Voting}^{(1)} \end{array}$	$\begin{array}{c} \text{Avg} \\ \text{Aggregation}^{(2)} \end{array}$	Decision Templates ⁽³⁾	OPTICS Decision Templates ⁽⁴⁾	Weighted OPTICS Decision Templates ⁽⁵⁾
	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
ecoli-0_vs_1	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.03
ecoli1	0.83 ± 0.05	0.84 ± 0.06	0.87 ± 0.02 _{1, 2, 4}	0.78 ± 0.07	0.87 ± 0.04 _{1, 2, 4}
ecoli2	0.85 ± 0.06	0.85 ± 0.06	0.90 ± 0.03	0.89 ± 0.04	0.86 ± 0.05
ecoli3	0.89 ± 0.03 $_{2, 4, 5}$	0.88 ± 0.03	0.89 ± 0.03 _{4, 5}	0.73 ± 0.11	0.88 ± 0.03
glass-0-1-2-3_vs_4-5-6	0.85 ± 0.03	0.85 ± 0.04	0.86 ± 0.04	0.89 ± 0.04	0.89 ± 0.04 $_{1, 2, 3}$
glass0	0.71 ± 0.04	0.71 ± 0.04	0.70 ± 0.04	0.65 ± 0.07	0.69 ± 0.06
glass1	0.65 ± 0.06	0.65 ± 0.05	0.64 ± 0.06	0.63 ± 0.04	0.61 ± 0.03
glass6	0.90 ± 0.03	0.89 ± 0.03	0.90 ± 0.03	0.89 ± 0.05	0.90 ± 0.02
haberman	0.63 ± 0.03	0.63 ± 0.03	0.63 ± 0.04	0.55 ± 0.03	0.58 ± 0.05
iris0	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
new-thyroid1	0.98 ± 0.01	0.98 ± 0.01	0.98 ± 0.01	0.99 ± 0.01	0.97 ± 0.01
new-thyroid2	0.99 ± 0.01	0.99 ± 0.01	0.99 ± 0.01	0.99 ± 0.01	0.98 ± 0.01
page-blocks0	0.76 ± 0.01	0.77 ± 0.01	0.80 ± 0.01	0.76 ± 0.06	0.67 ± 0.08
pima	0.73 ± 0.02	0.73 ± 0.02	0.73 ± 0.02	0.63 ± 0.04	0.72 ± 0.02
segment0	0.88 ± 0.02	0.88 ± 0.02	0.88 ± 0.02	0.89 ± 0.02	0.89 ± 0.02
vehicle0	0.75 ± 0.02	0.75 ± 0.02	0.74 ± 0.03	0.70 ± 0.07	0.73 ± 0.03
vehicle1	0.68 ± 0.02	0.68 ± 0.02	0.68 ± 0.02	0.62 ± 0.03	0.65 ± 0.05
vehicle2	0.76 ± 0.06	0.77 ± 0.06	0.77 ± 0.05	0.86 ± 0.04	0.77 ± 0.05
vehicle3	0.67 ± 0.01	0.67 ± 0.01	0.67 ± 0.01	0.57 ± 0.03	0.62 ± 0.03
wisconsin	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01
yeast1	0.51 ± 0.01	0.51 ± 0.01	0.64 ± 0.08	0.61 ± 0.02	0.65 ± 0.04
yeast3	0.71 ± 0.16	0.69 ± 0.14	$0.89 \pm 0.04 \atop 1, 2, 4$	$0.77 \stackrel{1, 2}{\pm} 0.05$	$0.89 \pm 0.04 \\ 1, 2, 4$

Table 7: G-mean						
Classifier	Majority Voting ⁽¹⁾	$\begin{array}{c} \text{Avg} \\ \text{Aggregation}^{(2)} \end{array}$	Decision Templates $^{(3)}$	$\begin{array}{c} \text{OPTICS} \\ \text{Decision} \\ \text{Templates}^{(4)} \end{array}$	Weighted OPTICS Decision Templates $^{(5)}$	
Dataset						
ecoli-0_vs_1	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.02	0.96 ± 0.03	
ecoli1	0.83 ± 0.06	0.83 ± 0.07	0.87 ± 0.02 _{1, 2, 4}	0.76 ± 0.09	0.87 ± 0.04 _{1, 2, 4}	
ecoli2	0.84 ± 0.07	0.84 ± 0.07	0.90 ± 0.03 _{1, 5}	0.88 ± 0.04	0.85 ± 0.06	
ecoli3	0.89 ± 0.03 _{2, 4, 5}	0.88 ± 0.03	0.89 ± 0.03 _{4, 5}	0.67 ± 0.19	0.87 ± 0.03	
glass-0-1-2-3_vs_4-5-6	0.84 ± 0.04	0.85 ± 0.04	0.86 ± 0.05	0.89 ± 0.04	0.89 ± 0.04 _{1, 2, 3}	
glass0	0.68 ± 0.04	0.68 ± 0.04	0.67 ± 0.04	0.59 ± 0.12	0.67 ± 0.06	
glass1	0.60 ± 0.08	0.59 ± 0.08	0.61 ± 0.07	0.61 ± 0.05	0.55 ± 0.05	
glass6	0.90 ± 0.03	0.89 ± 0.03	0.90 ± 0.03	0.88 ± 0.06	0.90 ± 0.03	
haberman	0.58 ± 0.06	0.59 ± 0.06	0.60 ± 0.06 $1, 2, 4, 5$	0.50 ± 0.05	0.53 ± 0.07	
iris0	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	
new-thyroid1	0.98 ± 0.01	0.98 ± 0.01	0.98 ± 0.01	$0.99 \pm 0.01 \\ {}_{1,\ 2,\ 3,\ 5}$	0.97 ± 0.01	
new-thyroid2	0.99 ± 0.01	0.99 ± 0.01	0.99 ± 0.01	0.99 ± 0.01	0.98 ± 0.01	
page-blocks0	0.75 ± 0.01	0.75 ± 0.01	0.79 ± 0.01 _{1, 2, 5}	0.73 ± 0.09	0.66 ± 0.08	
pima	0.73 ± 0.02 $_{4, 5}$	0.73 ± 0.02 _{4, 5}	0.73 ± 0.02 $_{4, 5}$	0.63 ± 0.05	0.72 ± 0.02	
segment0	0.87 ± 0.02	0.87 ± 0.02	0.88 ± 0.02	0.89 ± 0.03	0.88 ± 0.02 _{1, 2, 3}	
vehicle0	0.73 ± 0.02	0.73 ± 0.02	0.73 ± 0.02	0.67 ± 0.09	0.72 ± 0.03	
vehicle1	0.68 ± 0.02 $_{2, 4, 5}$	0.68 ± 0.02 _{4, 5}	$0.68 \pm 0.02 \atop {\scriptstyle 2,\ 4,\ 5}$	0.60 ± 0.05	0.64 ± 0.05	
vehicle2	0.76 ± 0.06	0.76 ± 0.06	0.77 ± 0.05 $_{1, 5}$	$0.86 \pm 0.04 \\ {}_{1,\ 2,\ 3,\ 5}$	0.76 ± 0.05	
vehicle3	0.67 ± 0.01	0.67 ± 0.01 _{4, 5}	0.67 ± 0.01 $_{4, 5}$	0.52 ± 0.05	0.61 ± 0.03	
wisconsin	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	0.96 ± 0.01	
yeast1	0.18 ± 0.02	0.17 ± 0.03	0.56 ± 0.20	0.57 ± 0.03	0.63 ± 0.06 _{1, 2, 4}	
yeast3	0.61 ± 0.24	0.59 ± 0.22	0.89 ± 0.05 $1, 2, 4$	0.75 ± 0.06	0.89 ± 0.04 $1, 2, 4$	

Table 8: Ranking							
Classifier	Majority Voting ⁽¹⁾	$\begin{array}{c} \operatorname{Avg} \\ \operatorname{Aggregation}^{(2)} \end{array}$	Decision Templates ⁽³⁾	OPTICS Decision Templates ⁽⁴⁾	Weighted OPTICS Decision Templates ⁽⁵⁾		
Accuracy	3.05	2.14	3.39	4.18 1, 2, 3, 5	2.25		
Sensitivity	3.07_{4}	$3.61 \atop {}^{1, 4}$	$3.27_{\stackrel{}{4}}$	1.68	3.36_{4}		
Specificity	3.00_{2}	2.07	3.07_{2}	$4.59 \\ 1, 2, 3, 5$	2.27		
Precision	3.20_{2}	2.34	$3.27_{2, 5}$	$\substack{4.27 \\ 1, \ 2, \ 3, \ 5}$	1.91		
F1 score	3.20	2.80	$3.82_{2, 5}$	2.86	2.32		
Balanced Accuracy	2.98	2.86	3.93 $1, 2, 4, 5$	2.64	2.59		
G-mean	3.00	2.73	$\substack{3.95 \\ 1,\ 2,\ 4,\ 5}$	2.73	2.59		