



Figure 1: Factors flow graph for the experiment.

id	nbClasses	nbSamplesPerClass
7	2	28±1
12	2	100±47
13	2	442±0
17	2	100±0
20	2	548±1
21	2	60±18
25	2	636±69
28	2	310±54
29	2	490±161
34	2	581±0
42	2	3582±3988
43	2	1650±170

Table 1: Morphology of the datasets

References

id	nbClasses	nbSamplesPerClass	kAverages	kkMeans	kMeans
7	2	28±1	54±26	48±32	48±12
12	2	100±47	15±0*	14±3	12±2
13	2	442±0	4±6	2±2	0±0
17	2	100±0	0*	0*	0*
20	2	548±1	0±0	1±0*	0±0
21	2	60±18	1±0	1±0	3±0*
25	2	636±69	41±0	52±0*	30±0
28	2	310±54	72±1	78±0*	55±21
29	2	490±161	22	21	24*
34	2	581±0	7±0*	7±0	0±0
42	2	3582±3988	0	0	0*
43	2	1650±170	0±0	0±0	0±0

Table 2: nbIterations: 200, distance: dtw, normalizeData: 1, objective: object, strategy: p, nbRuns: 20

id	nbClasses	nbSamplesPerClass
3	5	12±0
4	3	310±0
5	3	1436±755
6	4	355±0
11	4	80±31
15	4	28±5
18	5	93±9
19	7	93±22
22	7	20±8
26	6	74±20
27	4	15±8
30	3	3079±2045
32	6	170±9
33	4	50±0
35	4	1250±43
37	7	50±0
38	6	100±0

Table 3: Morphology of the datasets

id	nbClasses	nbSamplesPerClass	kAverages	kkMeans	kMeans
3	5	12±0	32±2	29±3	30±4
4	3	310±0	51±3	51±4	36±1
5	3	1436±755	0±0	0±0	0±0
6	4	355±0	41±5	44±8	23±3
11	4	80±31	65±10	81±10	83±3
15	4	28±5	72±10	67±9	45±4
18	5	93±9	10±1	9±1	9±0
19	7	93±22	5±0	5±1	5±1
22	7	20±8	50±2	51±4	44±2
26	6	74±20	25±2*	23±3	22±3
27	4	15±8	61±7	59±9	66±4*
30	3	3079±2045	60±0	61±4	60±0
32	6	170±9	80±1	79±4	76±6
33	4	50±0	53±3	58±7*	53±2
35	4	1250±43	11±8	15±13	2±0
37	7	50±0	42±2	42±2	31±2
38	6	100±0	87±5*	84±4	79±3

Table 4: nbIterations: 200, distance: dtw, normalizeData: 1, objective: object, strategy: p, nbRuns: 20

id	nbClasses	nbSamplesPerClass
1	50	18±21
2	37	21±2
8	12	65±0
9	12	65±0
10	12	65±0
14	14	161±73
16	14	161±73
23	8	300±0
24	10	114±171
31	15	75±0
36	25	36±41
39	8	560±0
40	8	560±0
41	8	560±0

Table 5: Morphology of the datasets

id	nbClasses	nbSamplesPerClass	kAverages	kkMeans	kMeans
1	50	18±21	71±1*	70±1	64±1
2	37	21±2	60±1	62±1*	58±1
8	12	65±0	31±1*	29±2	26±1
9	12	65±0	35±1	35±2	30±1
10	12	65±0	31±1*	30±1	25±1
14	14	161±73	74±1	77±3*	37±2
16	14	161±73	77±2	77±3	37±2
23	8	300±0	87±3	88±5	87±5
24	10	114±171	30±2	32±1*	25±1
31	15	75±0	67±2	66±3	54±2
36	25	36±41	51±1	51±1	42±1
39	8	560±0	46±0	46±1	44±1
40	8	560±0	44±0	45±0*	44±0
41	8	560±0	44±1*	43±1	0±0

Table 6: nbIterations: 200, distance: dtw, normalizeData: 1, objective: object, strategy: p, nbRuns: 20

Table 7: normalizeData: 1, objective: raw, strategy: p, nbRuns: 20

dataSet	distance	clustering	nbIterations	accuracy
50words	dtw	kAverages	200	0.51±0.02
50words	dtw	kAverages	1000	0.51±0.02
50words	euclidean	kAverages	200	0.40±0.01
50words	linear	kAverages	200	0.40±0.01
Adiac	dtw	kAverages	200	0.27±0.02
Adiac	dtw	kAverages	1000	0.27±0.02
Adiac	euclidean	kAverages	200	0.25±0.02
Adiac	linear	kAverages	200	0.23±0.01
Beef	dtw	kAverages	200	0.42±0.06
Beef	dtw	kAverages	1000	0.42±0.06
Beef	euclidean	kAverages	200	0.40±0.05
Beef	linear	kAverages	200	0.39±0.04
CBF	dtw	kAverages	200	0.68±0.08
CBF	dtw	kAverages	1000	0.68±0.08
CBF	euclidean	kAverages	200	0.61±0.00
CBF	linear	kAverages	200	0.60±0.01
ChlorineConcentration	dtw	kAverages	200	0.39±0.00
ChlorineConcentration	dtw	kAverages	1000	0.39±0.00
ChlorineConcentration	euclidean	kAverages	200	0.39±0.01
ChlorineConcentration	linear	kAverages	200	0.41±0.02
50words	dtw	kkMeans	200	0.47±0.02
50words	dtw	kkMeans	1000	0.47±0.02
50words	euclidean	kkMeans	200	0.37±0.01
50words	linear	kkMeans	200	0.38±0.01
Adiac	dtw	kkMeans	200	0.39±0.03
Adiac	dtw	kkMeans	1000	0.39±0.03
Adiac	euclidean	kkMeans	200	0.35±0.02
Adiac	linear	kkMeans	200	0.36±0.02
Beef	dtw	kkMeans	200	0.41±0.03
Beef	dtw	kkMeans	1000	0.41±0.03
Beef	euclidean	kkMeans	200	0.41±0.03
Beef	linear	kkMeans	200	0.39±0.03
CBF	dtw	kkMeans	200	0.72±0.04
CBF	dtw	kkMeans	1000	0.72±0.04
CBF	euclidean	kkMeans	200	0.64±0.01
CBF	linear	kkMeans	200	0.64±0.01
ChlorineConcentration	dtw	kkMeans	200	0.38±0.01
ChlorineConcentration	dtw	kkMeans	1000	0.38±0.01
ChlorineConcentration	euclidean	kkMeans	200	0.37±0.01
ChlorineConcentration	linear	kkMeans	200	0.38±0.01