mkaTimeSeriesPaper Mathieu Lagrange October 15, 2014

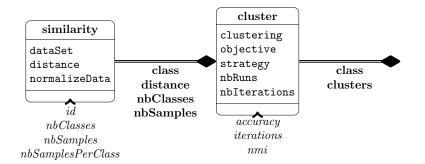


Figure 1: Factors flow graph for the experiment.

7	2	56	28±1
12	2	200	100±47
13	2	884	442±0
17	2	200	100±0
20	2	1096	548±1
21	2	121	60±18
25	2	1272	636±69
28	2	621	310±54
29	2	980	490±161

1162

7164

3300

2

2

2

34

42

43

581±0

 3582 ± 3988

1650±170

id nbClasses nbSamples nbSamplesPerClass

Table 1: Morphology of the datasets

References

nbClasses nbSamples nbSamplesPerClass id 7 2 56 28±1 12 2 200 100±47 442±0 884 2 13 100 ± 0 2 200 17 548±1 2 1096 20 21 2 121 60±18 2 636±69 25 1272 28 2 621 310±54 2 980 490±161 29 2 1162 581±0 34 2 7164 3582 ± 3988 42 1650±170 3300 43 clustering kAverages kkMeans kMeans Coffee 54±26 48 ± 32 48±12 ECG200 15±0* 12±2 14±3 **ECGFiveDays** 4±6 2±2 $o\pm o$ \mathbf{o}^* \mathbf{o}^* Gun_Point $\mathbf{0}^*$ ItalyPowerDemand $o\pm o$ 1±0* $o\pm o$ Lighting2 1±0 1±0 $3\pm 0^*$ MoteStrain 52±0* 41±0 30±0 Sony AIBOR obot Surface72±1 $78\pm0^*$ 55±21 Sony AIBOR obot Surface II24* 22 21 TwoLeadECG $o\pm o$ $7 \pm 0^*$ 7 ± 0 wafer \mathbf{o}^* o o $o\pm o$ $o\pm o$ yoga $o\pm o$

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