

Table 1: Sample Median and Interquartile Range values for 50 runs of each algorithm on each of the synthetic data sets. The best sample median value is shown in bold face; second place is shown in italics. Note: these values have not been tested for significance

Problem	average-link	<i>k</i> -means	VIENNA-conn	VIENNA-moo	VIENNA-var
Square1	0.98001 (0.010027)	<i>0.988</i> (0.008025)	0.619374 (0.263138)	0.988988 (0.006024)	0.983975 (0.007971)
Sqaure3	0.930993 (0.030256)	<i>0.952983</i> (0.013943)	0.399194 (0.000651)	0.957991 (0.013993)	0.938007 (0.016164)
Square5	0.761421 (0.097543)	<i>0.865995</i> (0.017893)	0.399356 (0.000487)	0.867186 (0.025892)	0.852127 (0.024172)
Sizes1	0.975909 (0.011897)	<i>0.986012</i> (0.005985)	0.428546 (0.19676)	0.989988 (0.006027)	0.982009 (0.009903)
Sizes3	0.983861 (0.011664)	<i>0.986115</i> (0.006078)	0.721302 (0.187685)	0.991979 (0.006005)	0.955299 (0.032038)
Sizes5	<i>0.987966</i> (0.009856)	0.982294 (0.015131)	0.70567 (0.096925)	0.993046 (0.005943)	0.726991 (0.248458)
Smile	0.752927 (0)	0.664904 (0.009925)	<i>0.76368</i> (0.165932)	0.789972 (0.069923)	0.673234 (0.012555)
Long1	0.663299 (0.0260)	0.521375 (0.016229)	<i>0.666222</i> (0)	0.998 (0.088687)	0.533654 (0.03508)

Table 2: Sample Median and Interquartile Range values for 50 runs of each algorithm on each of the real data sets. The best sample median value is shown in bold face; second place is shown in italics. Note: these values have not been tested for significance

Problem	average-link	<i>k</i> -means	VIENNA-conn	VIENNA-moo	VIENNA-var
Iris	0.809857 (0)	<i>0.817795</i> (0)	0.774411 (0)	0.840924 (0.001179)	<i>0.817795</i> (0)
Wine	0.925527 (0)	<i>0.925586</i> (0)	0.505268 (0.000822)	0.93157 (0)	0.925408 (0.023013)
Zoo	<i>0.839231</i> (0)	0.780973 (0.090315)	0.700776 (0.096577)	0.869737 (0.023004)	0.757648 (0.070593)
Dermatology	0.898637 (0)	<i>0.95879</i> (0)	0.684168 (0.13783)	0.958838 (0.010611)	0.84977 (0.071363)
Wisconsin	0.965966 (0)	0.965825 (0)	0.695035 (0)	0.973002 (0)	<i>0.9687</i> (0.002844)
Yeast	<i>0.448316</i> (0)	0.424293 (0.01402)	0.396794 (0.059373)	0.501966 (0.01363)	0.390633 (0.030265)
Digits	0.596675 (0)	<i>0.743213</i> (0.001871)	0.46581 (0.099806)	0.749847 (0.020626)	0.644437 (0.037139)