

Dataset	10% CS								KMEANS	GT
	PCCC	PCCC-N2-S	PCCC-N5-S	PCCC-N2-S-RD	COPKM	CSC	DILS	LCC		
n500-k2	<b>449.7</b>	<b>449.7</b>	<b>449.7</b>	<b>449.7</b>	<b>449.7</b>	<b>449.7</b>	<b>449.7</b>	669.6	448.6	449.7
n500-k5	<b>34.0</b>	<b>34.0</b>	<b>34.0</b>	<b>34.0</b>	–	870.5	185.4	34.2	30.9	34.4
n500-k10	<b>32.7</b>	<b>32.7</b>	<b>32.7</b>	<b>32.7</b>	69.0	953.5	471.0	35.4	31.6	33.6
n500-k20	33.9	34.0	33.9	<b>32.5</b>	39.2	953.4	581.3	39.5	29.8	42.2
n500-k50	15.4	15.5	15.4	<b>14.9</b>	17.4	831.6	551.7	18.0	13.3	27.7
n500-k100	7.4	7.4	7.4	<b>7.2</b>	8.0	706.2	575.9	8.5	6.9	25.1
n1000-k2	<b>911.7</b>	<b>911.7</b>	<b>911.7</b>	<b>911.7</b>	<b>911.7</b>	<b>911.7</b>	<b>911.7</b>	<b>911.7</b>	910.7	911.7
n1000-k5	<b>69.1</b>	<b>69.1</b>	<b>69.1</b>	<b>69.1</b>	71.9	1,478.1	583.1	79.2	62.8	69.6
n1000-k10	<b>66.2</b>	<b>66.2</b>	<b>66.2</b>	<b>66.2</b>	–	1,947.0	1,483.3	74.0	71.2	67.0
n1000-k20	74.8	75.4	75.0	<b>71.3</b>	–	1,903.5	1,565.8	102.9	63.1	82.4
n1000-k50	36.0	36.6	36.0	<b>34.6</b>	39.7	1,848.9	1,547.9	38.2	29.7	56.1
n1000-k100	19.2	19.3	19.2	<b>19.0</b>	22.7	1,721.2	1,436.3	21.6	15.8	53.8
n2000-k2	<b>1,770.4</b>	<b>1,770.4</b>	<b>1,770.4</b>	<b>1,770.4</b>	<b>1,770.4</b>	<b>1,770.4</b>	<b>1,770.4</b>	<b>1,770.4</b>	1,763.0	1,770.4
n2000-k5	<b>140.7</b>	<b>140.7</b>	<b>140.7</b>	<b>140.7</b>	<b>140.7</b>	253.9	2,451.2	153.6	124.4	140.7
n2000-k10	<b>130.7</b>	<b>130.7</b>	<b>130.7</b>	<b>130.7</b>	–	3,777.9	3,785.8	270.5	123.2	131.5
n2000-k20	<b>154.2</b>	165.2	<b>154.2</b>	<b>154.2</b>	–	3,825.6	3,710.3	245.9	126.4	162.9
n2000-k50	86.8	89.1	86.7	<b>86.3</b>	109.9	3,612.5	3,514.3	89.8	63.9	114.7
n2000-k100	3,751.3	49.2	49.1	<b>48.9</b>	59.3	3,549.7	3,536.9	53.0	35.7	113.0
n5000-k2	<b>4,493.8</b>	<b>4,493.8</b>	<b>4,493.8</b>	<b>4,493.8</b>	–	<b>4,493.8</b>	7,600.1	–	4,485.9	4,493.8
n5000-k5	<b>353.2</b>	<b>353.2</b>	<b>353.2</b>	<b>353.2</b>	–	454.4	9,914.4	–	314.3	353.2
n5000-k10	<b>336.1</b>	<b>336.1</b>	<b>336.1</b>	<b>336.1</b>	–	4,694.4	9,918.7	–	312.8	336.3
n5000-k20	<b>411.0</b>	474.0	<b>411.0</b>	<b>411.0</b>	–	8,760.3	9,902.9	–	303.4	414.5
n5000-k50	526.5	264.5	274.3	<b>260.6</b>	–	9,398.1	9,800.7	361.3	163.3	291.9
n5000-k100	222.0	<b>187.1</b>	187.3	191.2	262.6	9,243.4	9,638.9	199.8	95.0	294.7
Mean	588.6	425.2	422.4	<b>421.7</b>	–	2,850.4	3,578.7	–	401.1	436.3

Table W82: Minimum Inertia values of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 10% CS. Lower values indicate more coherent clusters. The lowest values are stated in bold. The column KMEANS reports the minimum inertia value obtained with the k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 3,600 seconds.