

Dataset	0% CS								KMEANS	GT
	PCCC	PCCC-N2-S	PCCC-N5-S	PCCC-N2-S-RD	COPKM	CSC	DILS	LCC		
n500-k2	<b>448.6</b>	<b>448.6</b>	<b>448.6</b>	<b>448.6</b>	<b>448.6</b>	449.7	449.0	–	448.6	449.7
n500-k5	<b>30.9</b>	<b>30.9</b>	<b>30.9</b>	<b>30.9</b>	<b>30.9</b>	31.0	63.3	–	30.9	34.4
n500-k10	<b>31.6</b>	<b>31.6</b>	<b>31.6</b>	<b>31.6</b>	<b>31.6</b>	40.3	<b>31.6</b>	–	31.6	33.6
n500-k20	<b>29.6</b>	<b>29.6</b>	<b>29.6</b>	<b>29.6</b>	<b>29.6</b>	32.5	33.2	–	29.8	42.2
n500-k50	<b>13.4</b>	<b>13.4</b>	<b>13.4</b>	<b>13.4</b>	<b>13.4</b>	13.9	15.1	–	13.3	27.7
n500-k100	<b>7.0</b>	<b>7.0</b>	<b>7.0</b>	<b>7.0</b>	<b>7.0</b>	7.3	8.2	–	6.9	25.1
n1000-k2	<b>910.7</b>	<b>910.7</b>	<b>910.7</b>	<b>910.7</b>	<b>910.7</b>	911.7	911.7	–	910.7	911.7
n1000-k5	<b>62.8</b>	<b>62.8</b>	<b>62.8</b>	<b>62.8</b>	<b>62.8</b>	<b>62.8</b>	424.8	–	62.8	69.6
n1000-k10	<b>62.7</b>	<b>62.7</b>	<b>62.7</b>	<b>62.7</b>	<b>62.7</b>	76.7	<b>62.7</b>	–	71.2	67.0
n1000-k20	64.2	64.2	64.2	64.2	<b>62.8</b>	70.4	1,203.6	–	63.1	82.4
n1000-k50	<b>29.7</b>	<b>29.7</b>	<b>29.7</b>	<b>29.7</b>	<b>29.7</b>	30.8	34.9	–	29.7	56.1
n1000-k100	<b>15.4</b>	<b>15.4</b>	<b>15.4</b>	<b>15.4</b>	<b>15.4</b>	16.7	17.8	–	15.8	53.8
n2000-k2	<b>1,763.0</b>	<b>1,763.0</b>	<b>1,763.0</b>	<b>1,763.0</b>	<b>1,763.0</b>	1,766.8	1,765.7	–	1,763.0	1,770.4
n2000-k5	<b>124.4</b>	<b>124.4</b>	<b>124.4</b>	<b>124.4</b>	<b>124.4</b>	<b>124.4</b>	2,148.9	–	124.4	140.7
n2000-k10	<b>123.2</b>	<b>123.2</b>	<b>123.2</b>	<b>123.2</b>	<b>123.2</b>	159.4	123.3	–	123.2	131.5
n2000-k20	<b>125.1</b>	<b>125.1</b>	<b>125.1</b>	<b>125.1</b>	<b>125.1</b>	126.4	132.7	–	126.4	162.9
n2000-k50	<b>63.1</b>	<b>63.1</b>	<b>63.1</b>	<b>63.1</b>	<b>63.1</b>	64.7	71.2	–	63.9	114.7
n2000-k100	<b>35.5</b>	<b>35.5</b>	<b>35.5</b>	<b>35.5</b>	<b>35.5</b>	38.0	40.0	–	35.7	113.0
n5000-k2	<b>4,485.9</b>	<b>4,485.9</b>	<b>4,485.9</b>	<b>4,485.9</b>	<b>4,485.9</b>	4,493.8	6,483.7	–	4,485.9	4,493.8
n5000-k5	<b>314.3</b>	<b>314.3</b>	<b>314.3</b>	<b>314.3</b>	<b>314.3</b>	<b>314.3</b>	8,845.9	–	314.3	353.2
n5000-k10	349.7	349.7	349.7	349.7	<b>312.8</b>	313.0	9,300.1	–	312.8	336.3
n5000-k20	<b>309.5</b>	<b>309.5</b>	<b>309.5</b>	<b>309.5</b>	<b>309.5</b>	320.6	350.6	–	303.4	414.5
n5000-k50	<b>163.5</b>	<b>163.5</b>	<b>163.5</b>	<b>163.5</b>	<b>163.5</b>	166.9	185.1	–	163.3	291.9
n5000-k100	<b>95.5</b>	<b>95.5</b>	<b>95.5</b>	<b>95.5</b>	<b>95.5</b>	96.0	107.8	–	95.0	294.7
Mean	<b>402.5</b>	<b>402.5</b>	<b>402.5</b>	<b>402.5</b>	404.4	406.3	3,247.2	–	401.1	436.3

Table W80: Minimum Inertia values of the versions of the PCCC algorithm and the four state-of-the-art algorithms (COPKM, CSC, DILS, LCC) for the constraint sets of size 0% 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.