

Dataset	20% CS								KMEANS	GT
	PCCC	PCCC-N2-S	PCCC-N5-S	PCCC-N2-S-RD	COPKM	CSC	DILS	LCC		
n500-k2	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	448.6	449.7
n500-k5	34.4	34.4	34.4	34.4	34.4	97.5	106.5	34.4	30.9	34.4
n500-k10	33.5	33.5	33.5	33.5	34.2	840.5	350.3	42.8	31.6	33.6
n500-k20	38.6	38.4	38.6	38.6	–	886.8	628.2	50.5	29.8	42.2
n500-k50	19.3	20.0	19.3	18.9	24.2	804.3	660.8	20.7	13.3	27.7
n500-k100	10.2	10.0	10.2	9.9	12.1	647.1	579.7	11.7	6.9	25.1
n1000-k2	911.7	911.7	911.7	911.7	911.7	911.7	911.7	–	910.7	911.7
n1000-k5	69.6	69.6	69.6	69.6	69.6	87.5	541.8	69.6	62.8	69.6
n1000-k10	66.7	66.7	66.7	66.7	66.7	988.0	1,283.5	69.0	71.2	67.0
n1000-k20	80.5	79.3	80.5	80.5	–	1,861.8	1,758.2	122.4	63.1	82.4
n1000-k50	51.6	47.2	49.4	47.9	–	1,702.9	1,643.1	56.1	29.7	56.1
n1000-k100	1,663.1	28.5	28.1	28.2	35.5	1,648.8	1,559.7	32.2	15.8	53.8
n2000-k2	1,770.4	1,770.4	1,770.4	1,770.4	–	1,770.4	1,770.4	–	1,763.0	1,770.4
n2000-k5	140.7	140.7	140.7	140.7	140.7	179.6	2,574.0	–	124.4	140.7
n2000-k10	131.5	131.5	131.5	131.5	131.5	374.3	3,611.9	131.5	123.2	131.5
n2000-k20	162.7	184.0	162.7	162.7	163.5	3,227.7	3,839.5	324.6	126.4	162.9
n2000-k50	108.7	113.2	108.7	109.1	–	3,182.2	3,769.0	161.2	63.9	114.7
n2000-k100	105.5	82.5	84.0	85.0	129.2	3,335.9	3,605.1	90.5	35.7	113.0
n5000-k2	4,493.8	4,493.8	4,493.8	4,493.8	–	4,493.8	7,662.3	–	4,485.9	4,493.8
n5000-k5	353.2	353.2	353.2	353.2	–	353.2	9,753.7	–	314.3	353.2
n5000-k10	336.3	336.3	336.3	336.3	–	1,065.5	9,906.4	–	312.8	336.3
n5000-k20	414.5	452.3	414.5	414.5	–	3,592.4	9,899.8	–	303.4	414.5
n5000-k50	291.2	298.4	291.2	291.2	296.6	8,934.8	9,841.6	–	163.3	291.9
n5000-k100	298.6	267.2	276.8	280.0	–	8,732.7	9,742.5	–	95.0	294.7
Mean	501.5	433.9	431.5	431.6	–	2,090.4	3,602.1	–	401.1	436.3

Table W84: 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 20% 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.