	20% CS							
Dataset	PCCC	PCCC-R	COPKM	CSC	DILS	LCC	KMEANS	GT
Appendicitis	**612.9**	**612.9**	–	**612.9**	**612.9**	670.9	451.8	612.9
Breast Cancer	**12,214.6**	**12,214.6**	**12,214.6**	16,270.2	**12,214.6**	–	11,595.7	12,214.6
Bupa	2,047.3	2,047.3	2,047.3	**1,844.4**	2,047.3	2,047.3	1,496.1	2,047.3
Circles	**600.0**	**600.0**	**600.0**	**600.0**	**600.0**	–	410.4	600.0
Ecoli	**1,115.7**	**1,115.7**	–	1,594.0	1,846.0	1,181.5	703.6	1,335.3
Glass	1,410.6	1,410.6	–	1,402.1	1,563.9	**1,391.5**	811.2	1,429.3
Haberman	891.4	891.4	891.4	**870.2**	891.4	891.4	701.4	891.4
Hayesroth	551.1	551.1	–	567.8	556.0	**550.9**	425.9	553.5
Heart	3,120.5	3,120.5	3,120.5	**3,080.0**	3,120.5	3,120.5	2,941.9	3,120.5
Ionosphere	**10,971.5**	**10,971.5**	**10,971.5**	11,388.9	**10,971.5**	–	9,086.0	10,971.5
Iris	**145.0**	**145.0**	152.7	216.5	220.4	145.2	141.2	167.9
Led7Digit	**1,511.0**	**1,511.0**	–	3,164.3	2,921.6	2,020.8	1,103.6	1,511.4
Monk2	2,384.3	2,384.3	2,384.3	**2,346.5**	2,384.3	–	2,306.5	2,384.3
Moons	322.9	322.9	322.9	**314.5**	322.9	322.9	249.7	322.9
Movement Libras	18,126.4	**18,020.2**	–	29,863.8	26,488.2	18,665.1	10,433.8	19,779.5
Newthyroid	**550.4**	**550.4**	**550.4**	900.5	550.9	558.0	462.3	550.9
Saheart	**3,927.7**	**3,927.7**	**3,927.7**	4,083.2	**3,927.7**	–	3,235.8	3,927.7
Sonar	**11,962.9**	**11,962.9**	**11,962.9**	12,166.3	**11,962.9**	**11,962.9**	10,649.6	11,962.9
Soybean	**367.1**	**367.1**	**367.1**	829.6	506.6	**367.1**	367.1	367.1
Spectfheart	**11,268.3**	**11,268.3**	**11,268.3**	11,359.6	**11,268.3**	**11,268.3**	8,983.9	11,268.3
Spiral	**564.5**	**564.5**	–	**564.5**	**564.5**	**564.5**	379.7	564.5
Tae	711.8	711.8	–	**701.7**	714.0	710.4	480.1	713.8
Vehicle	13,334.2	13,334.2	13,334.2	**12,899.9**	13,471.6	–	5,980.7	13,334.2
Wine	**1,290.7**	**1,290.7**	**1,290.7**	1,413.1	1,664.2	1,299.9	1,279.7	1,300.0
Zoo	**559.5**	**559.5**	624.2	1,199.0	763.5	580.5	527.2	579.6
Mean	4,022.5	**4,018.2**	–	4,810.2	4,486.2	–	3,008.2	4,100.5

Table W12: Minimum Inertia values of the PCCC and the PCCC-R algorithms 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 1,800 seconds.