	10% CS							
Dataset	PCCC	PCCC-R	COPKM	CSC	DILS	LCC	KMEANS	GT
Appendicitis	**544.2**	**544.2**	–	726.0	553.7	621.5	451.8	612.9
Breast Cancer	**12,185.0**	**12,185.0**	–	16,686.3	12,214.6	13,499.0	11,595.7	12,214.6
Bupa	2,041.6	2,041.6	–	**1,850.9**	2,048.0	2,049.1	1,496.1	2,047.3
Circles	598.8	598.8	–	599.8	599.8	**590.0**	410.4	600.0
Ecoli	**962.1**	**962.1**	1,045.1	1,795.6	2,000.2	1,225.3	703.6	1,335.3
Glass	1,084.3	**1,071.5**	1,187.0	1,618.8	1,777.1	1,130.6	811.2	1,429.3
Haberman	889.4	889.4	889.4	**870.2**	893.2	910.4	701.4	891.4
Hayesroth	520.6	**515.9**	–	614.0	563.0	521.0	425.9	553.5
Heart	**3,085.1**	**3,085.1**	–	3,432.4	3,086.2	3,440.5	2,941.9	3,120.5
Ionosphere	**10,944.9**	**10,944.9**	–	11,332.8	11,021.0	11,131.9	9,086.0	10,971.5
Iris	**146.2**	**146.2**	156.1	437.0	147.4	**146.2**	141.2	167.9
Led7Digit	1,383.8	**1,364.3**	1,450.7	3,324.8	2,830.5	1,423.1	1,103.6	1,511.4
Monk2	2,382.7	2,382.7	2,382.7	**2,382.6**	2,384.1	2,488.1	2,306.5	2,384.3
Moons	322.1	322.1	–	322.9	322.1	**313.2**	249.7	322.9
Movement Libras	11,688.3	**11,542.3**	12,515.9	30,041.1	22,619.6	12,121.3	10,433.8	19,779.5
Newthyroid	**536.0**	**536.0**	**536.0**	969.2	1,025.5	589.2	462.3	550.9
Saheart	3,924.3	3,924.3	3,924.3	**3,905.9**	3,924.3	4,055.0	3,235.8	3,927.7
Sonar	**11,873.8**	**11,873.8**	–	12,166.3	11,923.6	12,232.8	10,649.6	11,962.9
Soybean	**367.1**	**367.1**	**367.1**	906.4	666.1	428.4	367.1	367.1
Spectfheart	11,210.5	11,210.5	–	**11,042.8**	11,281.3	11,189.0	8,983.9	11,268.3
Spiral	**558.2**	**558.2**	–	584.3	**558.2**	567.0	379.7	564.5
Tae	**594.1**	**594.1**	–	729.0	637.8	600.3	480.1	713.8
Vehicle	**13,250.1**	**13,250.1**	–	14,038.4	13,616.6	–	5,980.7	13,334.2
Wine	**1,285.1**	**1,285.1**	**1,285.1**	2,020.2	1,743.2	1,287.3	1,279.7	1,300.0
Zoo	**553.1**	**553.1**	579.9	1,067.5	1,152.1	574.4	527.2	579.6
Mean	3,717.3	**3,709.9**	–	4,938.6	4,383.6	–	3,008.2	4,100.5

Table W10: 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 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 1,800 seconds.