

Dataset	5% CS						KMEANS	GT
	PCCC	PCCC-R	COPKM	CSC	DILS	LCC		
Appendicitis	491.8	491.8	538.0	738.5	736.0	491.8	451.8	612.9
Breast Cancer	12,084.2	12,084.2	–	16,966.6	13,697.8	13,015.9	11,595.7	12,214.6
Bupa	1,850.0	1,850.0	–	2,067.2	2,028.3	1,927.1	1,496.1	2,047.3
Circles	473.8	473.8	–	593.5	594.4	472.3	410.4	600.0
Ecoli	788.4	788.4	841.6	2,316.7	1,979.2	1,066.6	703.6	1,335.3
Glass	813.8	813.8	849.0	1,817.6	1,803.4	835.4	811.2	1,429.3
Haberman	800.2	800.2	–	916.3	855.0	812.6	701.4	891.4
Hayesroth	460.3	453.8	473.4	629.3	594.8	457.4	425.9	553.5
Heart	3,045.5	3,045.4	–	3,463.0	3,155.3	3,050.1	2,941.9	3,120.5
Ionosphere	10,259.7	10,259.0	–	11,449.8	11,191.3	10,567.4	9,086.0	10,971.5
Iris	146.3	146.3	149.0	582.4	149.8	146.3	141.2	167.9
Led7Digit	1,153.4	1,147.9	1,286.6	3,373.4	2,532.6	–	1,103.6	1,511.4
Monk2	2,358.9	2,358.9	–	2,584.7	2,491.2	2,440.3	2,306.5	2,384.3
Moons	283.7	283.7	322.8	595.9	364.8	304.1	249.7	322.9
Movement	11,124.3	10,821.1	11,223.0	30,508.3	22,379.1	10,931.0	10,433.8	19,779.5
Libras								
Newthyroid	506.1	506.1	506.1	1,064.3	1,062.2	506.1	462.3	550.9
Saheart	3,756.5	3,756.5	–	4,127.2	3,899.3	3,920.6	3,235.8	3,927.7
Sonar	11,289.1	11,289.1	–	12,285.8	11,999.1	11,412.8	10,649.6	11,962.9
Soybean	367.1	367.1	367.1	920.6	628.9	367.1	367.1	367.1
Spectfheart	10,468.4	10,468.0	–	11,704.3	11,286.5	10,463.7	8,983.9	11,268.3
Spiral	462.7	462.7	–	596.3	487.1	470.7	379.7	564.5
Tae	486.3	486.3	504.6	740.6	628.5	507.4	480.1	713.8
Vehicle	9,838.0	9,838.0	–	14,804.5	12,096.3	9,934.9	5,980.7	13,334.2
Wine	1,284.7	1,284.7	1,284.7	2,262.6	1,812.4	1,284.7	1,279.7	1,300.0
Zoo	571.5	546.5	565.0	1,425.6	1,259.0	566.7	527.2	579.6
Mean	3,406.6	3,392.9	–	5,141.4	4,388.5	–	3,008.2	4,100.5

Table W9: 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 5% 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.