	$20\%~\mathrm{CS}$						
	PCCC	PCCC-R	COPKM	CSC	DILS	LCC	KMEANS
Dataset							
Appendicitis	0.0	0.0	_	6.5	620.5	48.4	0.1
Breast Cancer	0.0	0.0	184.2	10.7	1,829.8	_	0.1
Bupa	0.0	0.0	134.0	4.7	1,818.1	6.6	0.1
Circles	0.0	0.0	98.7	4.6	1,809.1	_	0.1
Ecoli	0.3	0.9	_	3.9	1,811.7	1,370.7	0.1
Glass	0.4	0.8	_	7.5	1,379.3	$1,\!146.4$	0.1
Haberman	0.0	0.0	71.4	4.4	1,809.6	11.2	0.1
Hayesroth	0.1	0.2	_	3.0	964.8	77.1	0.1
Heart	0.0	0.0	65.8	7.5	1,812.5	8.2	0.1
Ionosphere	0.1	0.1	129.7	5.1	1,817.7	_	0.1
Iris	0.2	0.4	0.3	5.0	867.2	17.1	0.1
Led7Digit	2.2	5.5	_	5.5	1,811.1	1,855.5	0.1
Monk2	0.1	0.1	207.8	5.2	1,803.6	_	0.1
Moons	0.0	0.0	91.6	3.9	1,807.6	4.3	0.1
Movement Libras	10.2	32.1	_	9.1	1,820.3	1,819.7	0.2
Newthyroid	0.1	0.2	2.0	5.5	1,436.7	615.4	0.2
Saheart	0.1	0.1	220.6	7.6	1,808.1	_	0.2
Sonar	0.0	0.0	25.1	6.1	1,808.8	22.0	0.1
Soybean	0.1	0.2	0.2	3.0	262.6	29.8	0.2
Spectfheart	0.0	0.1	54.4	4.3	1,810.8	854.9	0.2
Spiral	0.0	0.0	_	4.0	1,811.8	9.1	0.2
Tae	0.1	0.2	_	5.5	881.6	792.4	0.1
Vehicle	0.1	0.1	370.0	16.6	1,861.9	_	0.1
Wine	0.2	0.4	0.8	1.8	1,189.3	739.5	0.1
Zoo	0.3	0.8	0.6	4.9	544.2	25.9	0.1
Sum	14.7	42.3	16,057.3*	145.8	37,198.5	20,254.0*	3.3

^{*}Nan values (-) are replaced with 1,800 before computing the sum.

Table W24: Average running times (in seconds) 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. The lowest values are stated in bold. The column KMEANS reports the average running time of the unconstrained k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 1,800 seconds.