	10% CS						
	$\overline{ ext{PCCC}}$	PCCC-R	COPKM	CSC	DILS	S LCC	KMEANS
Dataset							
Appendicitis	0.1	0.2	_	3.2	581.1	10.2	0.1
Breast Cancer	0.1	0.1	_	10.2	1,826.4	538.9	0.1
Bupa	0.1	0.2	_	4.3	1,811.9	247.9	0.2
Circles	0.2	0.6	_	6.0	1,494.9	280.8	0.1
Ecoli	2.0	4.1	0.7	7.7	1,686.1	40.8	0.1
Glass	1.2	3.0	4.5	6.1	1,002.4	46.9	0.1
Haberman	0.1	0.2	0.4	4.0	1,622.8	204.1	0.1
Hayesroth	0.8	1.9	_	4.2	811.3	11.0	0.1
Heart	0.2	0.5	_	4.9	1,617.0	133.4	0.1
Ionosphere	0.2	0.4	_	6.4	1,813.9	1,811.2	0.1
Iris	0.8	1.5	0.1	3.2	742.3	7.1	0.1
Led7Digit	4.9	12.4	1.4	8.5	1,807.3	130.8	0.1
Monk2	0.1	0.4	15.3	3.5	1,808.7	728.6	0.1
Moons	0.1	0.4	_	6.4	1,483.0	49.6	0.1
Movement Libras	4.7	11.4	8.1	4.6	1,812.8	$1,\!193.5$	0.2
Newthyroid	0.4	1.3	0.1	5.4	1,078.3	23.5	0.1
Saheart	0.1	0.4	12.2	8.4	1,816.9	990.6	0.1
Sonar	0.2	0.7	_	3.8	1,629.7	311.5	0.2
Soybean	0.2	0.6	0.1	1.1	256.5	16.5	0.1
Spectfheart	0.1	0.3	_	7.5	1,803.9	309.2	0.2
Spiral	0.1	0.4	_	4.5	1,622.2	203.3	0.1
Tae	0.5	1.4	_	5.6	712.7	14.6	0.1
Vehicle	0.7	1.7	_	13.5	1,816.0	_	0.2
Wine	0.7	1.3	0.3	6.1	968.6	20.6	0.2
Zoo	0.3	1.0	0.2	3.2	494.4	30.0	0.1
Sum	18.8	46.2	23,443.5*	142.5	34,121.2	9,154.8*	3.0

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

Table W18: 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 10% 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.