Dataset		Features	Clusters	1% CS							
	Objects			PCCC-N2-S	PCCC-N5-S	PCCC-N2-S-RD	COPKM	LCC	CSC	DILS	KMEANS
Banana	5,300	2	2	6.8	6.8	22.7	_	114.5	3,774.8	3,629.6	0.1
Letter	20,000	16	26	79.4	317.2	260.7	841.7	3,785.3	. –	4,568.9	0.5
Shuttle	57,999	9	7	13.3	48.5	35.9	-	_	-	_	0.3
CIFAR 10	60,000	3,072	10	1,128.2	1,415.7	1,801.4	_	_	_	_	16.9
CIFAR 100	60,000	3,072	100	3,628.1	3,628.3	3,611.7	-	-	-	_	83.9
MNIST	70,000	784	10	960.4	2,348.1	2,920.2	_	-	-	-	4.1
Sum				5,816.2	7,764.6	8,652.5	18,841.7*	18,299.8*	21,774.8*	22,598.5*	105.9

^{*}Nan values (-) are replaced with 3,600 before computing the sum.

Table W118: Average running times (in seconds) of the versions of the PCCC algorithm and the four state-of-the-art algorithms (COPKM, CSC, DILS, LCC) for the constraint sets of size 1% CS. Higher values indicate better separated clusters. 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.