

Dataset	10% CS	
	PCCC	PCCC-N2-S
n300-k10-s10	2.3	0.4
n300-k10-s20	2.9	0.6
n300-k10-s30	4.1	0.8
n300-k10-s40	4.1	1.1
n300-k10-s50	3.7	0.8
n300-k20-s10	6.4	0.6
n300-k20-s20	6.0	0.6
n300-k20-s30	6.8	0.7
n300-k20-s40	7.0	0.8
n300-k20-s50	6.4	0.4
n300-k50-s10	8.8	0.3
n300-k50-s20	11.7	0.5
n300-k50-s30	10.9	0.5
n300-k50-s40	11.1	0.5
n300-k50-s50	10.7	0.5
Sum	102.8	9.2

Table W38: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms 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 3,600 seconds.