

Dataset	20% CS	
	PCCC	PCCC-N2-S
n300-k10-s10	6.4	1.0
n300-k10-s20	8.8	1.3
n300-k10-s30	9.2	1.2
n300-k10-s40	15.2	1.5
n300-k10-s50	11.5	1.1
n300-k20-s10	14.9	0.9
n300-k20-s20	19.1	1.1
n300-k20-s30	19.7	1.2
n300-k20-s40	20.8	1.0
n300-k20-s50	18.5	1.0
n300-k50-s10	28.1	0.5
n300-k50-s20	34.6	0.6
n300-k50-s30	31.5	0.7
n300-k50-s40	38.6	0.7
n300-k50-s50	41.0	0.7
Sum	318.1	14.6

Table W48: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms 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 3,600 seconds.