

Dataset	25% CS		KMEANS
	PCCC	PCCC-N2-S	
n300-k10-s10	2.6	<b>0.2</b>	0.0
n300-k10-s20	5.9	<b>0.8</b>	0.1
n300-k10-s30	7.1	<b>1.1</b>	0.1
n300-k10-s40	8.7	<b>1.1</b>	0.0
n300-k10-s50	28.6	<b>2.6</b>	0.1
n300-k20-s10	18.8	<b>0.6</b>	0.0
n300-k20-s20	23.3	<b>0.8</b>	0.0
n300-k20-s30	18.7	<b>0.8</b>	0.1
n300-k20-s40	25.2	<b>1.1</b>	0.1
n300-k20-s50	25.8	<b>1.7</b>	0.0
n300-k50-s10	35.0	<b>0.5</b>	0.0
n300-k50-s20	46.6	<b>0.5</b>	0.1
n300-k50-s30	48.3	<b>0.8</b>	0.0
n300-k50-s40	44.1	<b>0.7</b>	0.1
n300-k50-s50	46.8	<b>0.8</b>	0.1
Sum	385.6	<b>14.1</b>	0.7

Table W69: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 25% 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.