| | 5% CS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Dataset | PCCC | PCCC-N2-S | PCCC-N5-S | PCCC-N2-S-RD | COPKM | CSC | DILS | LCC | KMEANS |
| n500-k2 | **0** | **0** | **0** | **0** | – | 147 | **0** | **0** | 2 |
| n500-k5 | **0** | **0** | **0** | **0** | **0** | 174 | **0** | 3 | 16 |
| n500–k10 | **0** | **0** | **0** | **0** | **0** | 173 | **0** | **0** | 3 |
| n500-k20 | **0** | **0** | **0** | **0** | **0** | 122 | **0** | **0** | 6 |
| n500-k50 | **0** | **0** | **0** | **0** | **0** | 88 | **0** | **0** | 3 |
| n500-k100 | **0** | **0** | **0** | **0** | **0** | 18 | **0** | **0** | 4 |
| n1000-k2 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | 9 |
| n1000-k5 | **0** | **0** | **0** | **0** | – | 543 | 14 | 27 | 35 |
| n1000-k10 | **0** | 1 | **0** | **0** | **0** | 314 | 10 | 19 | 35 |
| n1000-k20 | **0** | **0** | **0** | **0** | **0** | 210 | 6 | 3 | 19 |
| n1000-k50 | **0** | **0** | **0** | **0** | **0** | 98 | 5 | 2 | 21 |
| n1000-k100 | **0** | **0** | **0** | **0** | **0** | 36 | **0** | – | 11 |
| n2000-k2 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | 446 | 46 |
| n2000-k5 | **0** | **0** | **0** | **0** | **0** | 1,615 | 288 | 162 | 272 |
| n2000-k10 | **0** | **0** | **0** | **0** | **0** | 853 | 152 | 43 | 98 |
| n2000-k20 | **0** | **0** | **0** | **0** | **0** | 206 | 83 | 36 | 120 |
| n2000-k50 | **0** | **0** | **0** | **0** | **0** | 87 | 36 | 8 | 69 |
| n2000-k100 | **0** | **0** | **0** | **0** | **0** | 74 | 18 | 3 | 42 |
| n5000-k2 | **0** | **0** | **0** | **0** | – | **0** | 4,082 | 302 | 113 |
| n5000-k5 | **0** | **0** | **0** | **0** | **0** | 1,530 | 3,665 | 454 | 657 |
| n5000-k10 | **0** | **0** | **0** | **0** | – | 1,593 | 1,974 | 1,974 | 568 |
| n5000-k20 | **0** | 45 | **0** | **0** | – | 749 | 1,047 | 626 | 710 |
| n5000-k50 | **0** | **0** | **0** | **0** | **0** | 258 | 426 | 147 | 371 |
| n5000-k100 | **0** | **0** | **0** | **0** | **0** | 144 | 209 | 54 | 246 |
| Mean | **0** | 2 | **0** | **0** | – | 376 | 501 | – | 145 |

Table W91: Average number of cannot-link constraint violations 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 5% CS. The lowest values are stated in bold. The column KMEANS reports the average number of cannot-link constraint violations obtained with the k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 3.600 seconds.