

| Dataset    | 15% CS         |                |              |                |                |              | GT      |
|------------|----------------|----------------|--------------|----------------|----------------|--------------|---------|
|            | PCCC           | PCCC-N2-S-RD   | COPKM        | CSC            | DILS           | LCC          |         |
| n1000-k10  | <b>66.9</b>    | <b>66.9</b>    | <b>66.9</b>  | 1,663.9        | 1,438.1        | 104.4        | 67.0    |
| n1000-k100 | 24.4           | <b>21.9</b>    | 28.1         | 1,695.3        | 1,490.1        | 24.0         | 53.8    |
| n1000-k2   | <b>911.7</b>   | <b>911.7</b>   | <b>911.7</b> | <b>911.7</b>   | <b>911.7</b>   | –            | 911.7   |
| n1000-k20  | <b>77.2</b>    | <b>77.2</b>    | –            | 1,877.4        | 1,732.2        | 130.3        | 82.4    |
| n1000-k5   | <b>69.6</b>    | <b>69.6</b>    | <b>69.6</b>  | 87.4           | 538.5          | 71.1         | 69.6    |
| n1000-k50  | 44.3           | <b>41.1</b>    | 58.9         | 1,813.6        | 1,536.0        | 43.8         | 56.1    |
| n2000-k10  | <b>131.5</b>   | <b>131.5</b>   | <b>131.5</b> | 1,479.1        | 3,653.7        | –            | 131.5   |
| n2000-k100 | 3,634.2        | <b>64.7</b>    | 83.1         | 3,464.4        | 3,532.3        | 67.9         | 113.0   |
| n2000-k2   | <b>1,770.4</b> | <b>1,770.4</b> | –            | <b>1,770.4</b> | <b>1,770.4</b> | –            | 1,770.4 |
| n2000-k20  | <b>160.8</b>   | <b>160.8</b>   | 166.4        | 3,684.0        | 3,814.1        | 275.5        | 162.9   |
| n2000-k5   | <b>140.7</b>   | <b>140.7</b>   | <b>140.7</b> | 179.6          | 2,475.9        | <b>140.7</b> | 140.7   |
| n2000-k50  | 152.1          | <b>102.8</b>   | –            | 3,534.4        | 3,748.2        | 126.3        | 114.7   |
| n5000-k10  | <b>336.3</b>   | <b>336.3</b>   | –            | 1,298.8        | 9,888.7        | –            | 336.3   |
| n5000-k100 | 388.2          | <b>254.4</b>   | –            | 8,950.1        | 9,689.8        | 313.8        | 294.7   |
| n5000-k2   | <b>4,493.8</b> | <b>4,493.8</b> | –            | <b>4,493.8</b> | 7,691.9        | –            | 4,493.8 |
| n5000-k20  | <b>414.5</b>   | <b>414.5</b>   | 420.9        | 7,212.5        | 9,905.5        | –            | 414.5   |
| n5000-k5   | <b>353.2</b>   | <b>353.2</b>   | –            | 454.4          | 9,796.3        | –            | 353.2   |
| n5000-k50  | <b>285.0</b>   | 287.9          | –            | 9,279.9        | 9,845.0        | –            | 291.9   |
| n500-k10   | <b>33.5</b>    | <b>33.5</b>    | –            | 947.0          | 464.1          | 34.8         | 33.6    |
| n500-k100  | 8.5            | <b>8.4</b>     | 9.7          | 707.4          | 592.8          | 10.0         | 25.1    |
| n500-k2    | <b>449.7</b>   | <b>449.7</b>   | <b>449.7</b> | <b>449.7</b>   | <b>449.7</b>   | <b>449.7</b> | 449.7   |
| n500-k20   | 41.8           | <b>36.2</b>    | 59.3         | 910.6          | 591.0          | 44.8         | 42.2    |
| n500-k5    | <b>34.1</b>    | <b>34.1</b>    | <b>34.1</b>  | 377.7          | 122.7          | 36.8         | 34.4    |
| n500-k50   | 16.8           | <b>16.0</b>    | 20.3         | 831.7          | 582.7          | 20.4         | 27.7    |
| Mean       | 585.0          | <b>428.2</b>   | –            | 2,419.8        | 3,594.2        | –            | 436.3   |

Table W83: Minimum Inertia values of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 15% CS. Lower values indicate more coherent clusters. The lowest values are stated in bold. The column KMEANS reports the minimum inertia value obtained with the k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 3,600 seconds.