

## 1 Test data

The metaheuristics described above were fine-tuned and tested on examples from: <https://www.math.uwaterloo.ca/tsp/vlsi/index.html>.

## 2 Comparison of implemented heuristics

| Przykład | Optimum | MST&DFS | Local-search | Simulated annealing | Tabu-search | Genetic |
|----------|---------|---------|--------------|---------------------|-------------|---------|
| xqf131   | 564     | 718     | 612          | 580                 | 602         | 582     |
| xqg237   | 1019    | 1445    | 1115         | 1056                | 1089        | 1087    |
| pma343   | 1368    | 1883    | 1484         | 1395                | 1454        | 1461    |
| pka379   | 1332    | 1855    | 1445         | 1380                | 1398        | 1438    |
| bcl380   | 1621    | 2319    | 1817         | 1730                | 1750        | 1796    |
| pbl395   | 1281    | 1871    | 1429         | 1363                | 1377        | 1406    |
| pbk411   | 1343    | 1935    | 1488         | 1431                | 1433        | 1483    |
| pbn423   | 1365    | 1918    | 1521         | 1457                | 1468        | 1509    |
| pbm436   | 1443    | 2119    | 1612         | 1540                | 1563        | 1587    |
| xql662   | 2513    | 3691    | 2813         | 2682                | 2699        | 2809    |
| xit1083  | 3558    | 5190    | 4021         | 3825                | 3909        | 4011    |
| icw1483  | 4416    | 6754    | 4990         | 4731                | 4739        | 5038    |
| djc1785  | 6115    | 8908    | 6872         | 6545                | 6470        | 6927    |
| dcb2086  | 6600    | 9777    | 7457         | 7129                | 7171        | 7503    |
| pds2566  | 7643    | 11427   | 8701         | 8225                | 8377        | 8787    |