

## 1 RESULTS OF ADDITIONAL EXPERIMENTS

| Methods               | DPDP_8_12        |       | DPDP_10_10       |       | DPDP_12_8        |       | DPDP_14_6        |       | DPDP_24_16       |       | DPDPTW_8_12      |       |
|-----------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|                       | Obj. Value (Gap) | Time  | Obj. Value (Gap) | Time  | Obj. Value (Gap) | Time  | Obj. Value (Gap) | Time  | Obj. Value (Gap) | Time  | Obj. Value (Gap) | Time  |
| MP (theoretical opt.) | 4.40 (0%)        | ~ 5s  | 4.40 (0%)        | ~ 5s  | 4.42 (0%)        | ~ 5s  | 4.38 (0%)        | ~ 5s  | -                | -     | 9.07 (0%)        | ~ 5s  |
| CI                    | 4.93 (12.20%)    | <1 ms | 4.82 (9.52%)     | <1 ms | 4.73 (6.99%)     | <1 ms | 4.58 (4.58%)     | <1 ms | 6.89 (0%)        | <1 ms | 10.25 (12.55%)   | <1 ms |
| MGI [1]               | 4.91(11.66%)     | <1 ms | 4.80 (9.19%)     | <1 ms | 4.73 (6.94%)     | <1 ms | 4.58 (4.55%)     | <1 ms | 6.89 (-0.09%)    | <1 ms | 10.21 (12.01%)   | <1 ms |
| Neuro-Ins             | 4.57 (3.84%)     | <1 ms | 4.53 (2.86%)     | <1 ms | 4.52 (2.09%)     | <1 ms | 4.45 (1.45%)     | <1 ms | 6.47 (-6.07%)    | <1 ms | 10.11 (10.87%)   | <1 ms |

Table 1: Comparison results for all instances.

## REFERENCES

- [1] Qingte Zhou, Huanyu Zheng, Shengyao Wang, Jinghua Hao, Renqing He, Zhizhao Sun, Xing Wang, and Ling Wang. 2020. Two fast heuristics for online order dispatching. In *2020 IEEE Congress on Evolutionary Computation (CEC)*. IEEE, 1–8.