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| ***Configurations*** | | | ***Parameters*** | | | | | | | | | | | | | | | | | | | | | |
| ***Selection*** | ***Mutation*** | ***Crossover*** | **Mutation rate** | | | | | **Probability of the cross over** | | | | | | **Population size** | | | **Number of generations** | | | | | | | |
| 0.1 | 0.15 | 0.12 | 0.2 | 0.25 | 0.9 | 0.95 | 0.95 | 0.9 |  | 10 | | 10 | 10 | 10 |  | 100 | 100 | 100 | 100 |  |
| ***Tournament*** | **Cycle** | **Swap** | 2866.19 | 2651.56 | 2715.09 | 2490.8 |  | 2866.19 | 2651.56 | 2715.09 | 2490.8 |  | 2866.19 | |  |  |  |  |  |  |  |  |  |
| **Inversion** | 2580.01 | 2413.07 | 2558.81 | 2327.75 |  | 2580.01 | 2413.07 | 2558.81 | 2327.75 |  |  | |  |  |  |  |  |  |  |  |  |
| **PMX** | **Swap** | 2798.18 | 2622.52 | 2739.34 | 2518.31 |  | 2798.18 | 2622.52 | 2739.34 | 2518.31 |  |  | |  |  |  |  |  |  |  |  |  |
| **Inversion** | 2540.47 | 2408.45 | 2465.94 | 2307.36 |  | 2540.47 | 2408.45 | 2739.34 | 2307.36 |  |  | |  |  |  |  |  |  |  |  |  |
| ***FPS*** | **Cycle** | **Swap** | 2816,87 | 2730,13 | 2852.72 | 2718.76 |  | 2816,87 | 2730,13 | 2852.72 | 2718.76 |  |  | |  |  |  |  |  |  |  |  |  |
| **Inversion** | 2766.94 | 2641,04 | 2668.45 | 2567.54 |  | 2766.94 | 2641,04 | 2668.45 | 2567.54 |  |  | |  |  |  |  |  |  |  |  |  |
| **PMX** | **Swap** | 2731,46 | 2670,31 | 2690.96 | 2668.45 |  | 2731,46 | 2670,31 | 2690.96 | 2564.18 |  |  | |  |  |  |  |  |  |  |  |  |
| **Inversion** | 2553,45 | 2453,2 | 2487.54 | 2444.27 |  | 2553,45 | 2453,2 | 2487.54 | 2444.27 |  |  | |  |  |  |  |  |  |  |  |  |
| ***Ranking*** | **Cycle** | **Swap** |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |
| **Inversion** |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |
| **PMX** | **Swap** |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |
| **Inversion** |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |

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