ECO Tables

**All tested using popSize of 20, Tournament of 6, mutation rate max of 5, mutation and crossover probability of 0.6. Max iterations of 1000.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Mutation Used | Crossover Used | Selection Used | Hill Climber Used | Sawtooth Used | Scores |
| Bitflip/ creep | Single point | Tournament | Yes | no | 217.218  214.990  215.500  214.958  218.408  215.642  216.442  217.022  216.832  216.232 |
| Bitflip/creep | Multipoint | Tournament | Yes | No | 216.660  217.132  215.346  214.682  215.962  216.522  215.636  216.426  217.472  216.506 |
| Bitflip/creep | Uniform | Tournament | Yes | No | 216.324  216.718  214.806  216.458  216.020  216.568  214.682  215.992  214.898  214.800 |
| Bitflip/creep | Single point | Roulette | Yes | No | 219.534  217.805  220.222  219.942  218.503  219.756  217.776  218.808  220.203  219.612 |
| Bitflip/creep | Multipoint | Roulette | Yes | No | 220.222  220.362  219.760  219.376  219.870  218.604  219.507  217.764  218.314  218.700 |
| Bitflip/creep | Uniform | Roulette | Yes | No | 220.260  220.540  219.096  220.914  220.769  218.812  218.160  218.696  217.730  219.662 |
| Scramble | Single point | Tournament | Yes | No | 216.640  214.250  215.358  214.286  214.612  215.066  214.760  213.460  213.510  215.126 |
| Scramble | Multi-point | Tournament | Yes | No | 214.450  215.938  214.994  215.062  215.524  215.026  214.836  214.766  214.450  215.938 |
| Scramble | Uniform | Tournament | Yes | No | 214.060  214.612  215.306  216.108  216.154  214.054  214.024  213.398  214.772  214.658 |
| Scramble | Uniform | Roulette | Yes | No | 217.724  218.640  218.658  217.854  218.706  218.710  219.348  218.998  217.142  219.502 |
| Scramble | Multipoint | Roulette | Yes | No | 217.700  218.622  217.934  219.138  218.714  217.574  218.520  217.607  217.934  217.574 |
| Scramble | Single point | Roulette | Yes | No | 218.190  220.309  218.268  217.402  217.818  218.264  218.767  217.990  217.866  218.488 |

**Tournament selection, uniform crossover, scramble mutation, iterations 1000**

|  |  |
| --- | --- |
| Population size | results |
| 25 | 215.624  215.318  215.130  215.328  216.044  214.400  214.884  215.700  214.436  214.302 |
| 50 | 216.394  215.502  216.356  216.720  216.376  214.992  216.190  215.624  216.372  215.034 |
| 75 | 217.204  214.804  215.620  214.412  215.862  216.304  215.900  214.446  217.480  216.850 |
| 100 | 216.492  218.138  218.562  216.836  217.322  216.836  217.330  215.766  216.358  217.734 |