|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Performance  Metric | Algorithm | Number of Experiments | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Average |
| NDS | MO-JPSO | 48 | 26 | 46 | 48 | 46 | 24 | 37 | 44 | 24 | 44 | 38.7 |
| NSGA-II | 4 | 4 | 4 | 4 | 4 | 28 | 24 | 24 | 24 | 14 | 13.4 |
| NSGA-III | 33 | 24 | 18 | 17 | 22 | 13 | 18 | 12 | 33 | 12 | 20.2 |
| Hypervolume | MO-JPSO | 0.536 | 0.122 | 0.593 | 0.536 | 0.593 | 0.252 | 0.587 | 0.404 | 0.252 | 0.404 | 0.4279 |
| NSGA-II | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.458 | 0.599 | 0.414 | 0.736 | 0.332 | 0.2674 |
| NSGA-III | 2.729 | 1.594 | 2.867 | 1.276 | 4.023 | 0.852 | 1.078 | 0.023 | 1.593 | 0.645 | 1.668 |
| Set  Coverage | NSGA-II TO MO-JPSO |  |  |  |  |  |  |  |  |  |  |  |
| MO-JPSO TO NSGA-II |  |  |  |  |  |  |  |  |  |  |  |
| NSGA-II TO NSGA-III |  |  |  |  |  |  |  |  |  |  |  |
| NSGA-III TO NSGA-II |  |  |  |  |  |  |  |  |  |  |  |
| MO-JPSO TO NSGA-III |  |  |  |  |  |  |  |  |  |  |  |
| NSGA-III TO MO-JPSO |  |  |  |  |  |  |  |  |  |  |  |
| `Delta | MO-JPSO | 0.673 | 1.111 | 0.69 | 0.673 | 0.69 | 0.946 | 0.766 | 0.666 | 0.946 | 0.666 | 0.7827 |
| NSGA-II | 6.222 | 6.222 | 6.222 | 6.222 | 6.222 | 2.946 | 4.041 | 3.629 | 3.536 | 5.478 | 5.074 |
| NSGA-III | 3.362 | 3.702 | 5.789 | 2.237 | 1.267 | 6.829 | 5.748 | 1.014 | 5.217 | 4.158 | 3.9323 |