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| **Algorithm** | **ZDT1** | | | | | **ZDT2** | | | | |
|  | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** |
| MH5N1 | 0.0014 | 0.0006 | 0.0013 | 0.0010 | 0.0023 | 0.0337 | 0.7141 | 0.0114 | 0.0009 | 0.0734 |
| MOPSO | 0.0080 | 0.0085 | 0.0013 | 0.0009 | 0.0321 | 0.1258 | 0.0487 | 0.1157 | 0.0311 | 0.1996 |
| NSGA-II | 0.0946 | 0.0168 | 0.0907 | 0.0662 | 0.1284 | 0.2169 | 0.0243 | 0.2172 | 0.1257 | 0.2589 |
| **Algorithm** | **ZDT3** | | | | | **ZDT1 with linear front** | | | | |
|  | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** |
| MH5N1 | 0.0249 | 0.0004 | 0.0247 | 0.0242 | 0.0259 | 0.0071 | 0.0147 | 0.0014 | 0.0009 | 0.0564 |
| MOPSO | 0.0217 | 0.0022 | 0.0208 | 0.0190 | 0.0257 | 0.0535 | 0.0531 | 0.0435 | 0.0010 | 0.2152 |
| NSGA-II | 0.0468 | 0.0077 | 0.0459 | 0.0333 | 0.0660 | 0.1376 | 0.0232 | 0.1374 | 0.0855 | 0.1760 |
| **Algorithm** | **ZDT2 with 3 objectives** | | | | |  |  |  |  |  |
|  | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** |  |  |  |  |  |
| MH5N1 | 0.0070 | 0.0016 | 0.0072 | 0.0052 | 0.0098 |  |  |  |  |  |
| MOPSO | 0.0079 | 0.0027 | 0.0072 | 0.0051 | 0.0143 |  |  |  |  |  |
| NSGA-II | 0.0262 | 0.0030 | 0.0274 | 0.0190 | 0.0294 |  |  |  |  |  |

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| **Algorithm** | **ZDT1** | | | | | | | **ZDT2** | | | | | | |
|  | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Mean rank*** | ***Final rank*** | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Mean rank*** | ***Final rank*** |
| MH5N1 | 1 | 1 | 1 | 2 | 1 | 1.20 | 1 | 1 | 3 | 1 | 1 | 1 | 1.40 | 1 |
| MOPSO | 2 | 2 | 2 | 1 | 2 | 1.80 | 2 | 2 | 2 | 2 | 2 | 2 | 2.00 | 2 |
| NSGA-II | 3 | 3 | 3 | 3 | 3 | 3.00 | 3 | 3 | 1 | 3 | 3 | 3 | 2.60 | 3 |
| **Algorithm** | **ZDT3** | | | | | | | **ZDT1 with linear front** | | | | | | |
|  | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Mean rank*** | ***Final rank*** | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Mean rank*** | ***Final rank*** |
| MH5N1 | 2 | 1 | 2 | 2 | 2 | 1.80 | 2 | 1 | 1 | 1 | 1 | 1 | 1.00 | 1 |
| MOPSO | 1 | 2 | 1 | 1 | 1 | 1.20 | 1 | 2 | 3 | 2 | 2 | 3 | 2.40 | 2 |
| NSGA-II | 3 | 3 | 3 | 3 | 3 | 3.00 | 3 | 3 | 2 | 3 | 3 | 2 | 2.60 | 3 |
| **Algorithm** | **ZDT2 with 3 objectives** | | | | | | |  |  |  |  |  |  |  |
|  | ***Ave*** | ***Std.*** | ***Median*** | ***Best*** | ***Worst*** | ***Mean rank*** | ***Final rank*** |  |  |  |  |  |  |  |
| MH5N1 | 1 | 1 | 1 | 2 | 1 | 1.20 | 1 |  |  |  |  |  |  |  |
| MOPSO | 2 | 2 | 2 | 1 | 2 | 1.80 | 2 |  |  |  |  |  |  |  |
| NSGA-II | 3 | 3 | 3 | 3 | 3 | 3.00 | 3 |  |  |  |  |  |  |  |