|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample No. | NPS | | |  | MID | | |  | DM | | |  | SNS | | |  | RAS | | |  | QM | | |
| SPEA-II | NSGA-II | Hybrid | SPEA-II | NSGA-II | Hybrid | SPEA-II | NSGA-II | Hybrid | SPEA-II | NSGA-II | Hybrid | SPEA-II | NSGA-II | Hybrid | SPEA-II | NSGA-II | Hybrid |
| 01 | 48 | 21 | 25 |  | 0.55 | 0.68 | 0.70 |  | 357.87 | 260.97 | 278.50 |  | 0.28 | 0.29 | 0.32 |  | 49.86 | 49.18 | 49.29 |  | 0.08 | 0.00 | 1.00 |
| 02 | 26 | 25 | 19 |  | 0.63 | 0.92 | 0.83 |  | 296.68 | 170.64 | 186.81 |  | 0.23 | 0.18 | 0.23 |  | 49.71 | 50.36 | 48.70 |  | 0.12 | 0.20 | 1.00 |
| 03 | 42 | 13 | 28 |  | 0.70 | 0.63 | 0.66 |  | 353.04 | 270.02 | 278.09 |  | 0.27 | 0.36 | 0.30 |  | 49.72 | 49.29 | 49.04 |  | 0.36 | 0.00 | 0.93 |
| 04 | 59 | 25 | 29 |  | 0.70 | 0.76 | 0.88 |  | 425.93 | 398.28 | 165.65 |  | 0.19 | 0.27 | 0.28 |  | 52.75 | 49.61 | 50.89 |  | 0.73 | 0.48 | 0.86 |
| 05 | 31 | 24 | 28 |  | 0.63 | 0.72 | 0.72 |  | 310.50 | 279.95 | 179.02 |  | 0.24 | 0.21 | 0.23 |  | 49.50 | 48.17 | 49.00 |  | 0.52 | 0.00 | 0.96 |
| 06 | 35 | 16 | 17 |  | 0.66 | 0.86 | 0.58 |  | 281.43 | 230.72 | 276.69 |  | 0.25 | 0.26 | 0.34 |  | 49.55 | 48.85 | 48.87 |  | 0.34 | 0.06 | 0.88 |
| 07 | 49 | 24 | 19 |  | 0.53 | 0.87 | 0.76 |  | 317.70 | 212.54 | 237.94 |  | 0.25 | 0.22 | 0.28 |  | 49.19 | 49.81 | 51.14 |  | 0.8 | 0.33 | 0.47 |
| 08 | 33 | 13 | 21 |  | 0.67 | 0.77 | 0.69 |  | 263.53 | 156.63 | 320.84 |  | 0.26 | 0.39 | 0.31 |  | 49.29 | 48.92 | 49.85 |  | 0.45 | 0.00 | 1.00 |
| 09 | 42 | 20 | 36 |  | 0.78 | 0.90 | 0.75 |  | 267.46 | 161.82 | 239.70 |  | 0.19 | 0.18 | 0.23 |  | 48.34 | 49.94 | 49.41 |  | 1.00 | 0.00 | 0.00 |
| 10 | 22 | 27 | 16 |  | 0.74 | 0.68 | 0.90 |  | 284.32 | 409.99 | 203.05 |  | 0.32 | 0.24 | 0.28 |  | 50.04 | 49.22 | 47.70 |  | 0.36 | 0.11 | 0.88 |
| **Ave.** | **38.70** | **20.80** | **23.80** |  | **0.66** | **0.78** | **0.75** |  | **315.85** | **255.20** | **236.60** |  | **0.25** | **0.26** | **0.28** |  | **49.80** | **49.33** | **49.39** |  | **0.48** | **0.12** | **0.80** |