Table 1: IGD. Mean and standard deviation

| Obj. | problem | HHCOR2 | HHCORandom | HHCOR2LPNORM | HHCORandomLPNORM | HHCOR2MINMAX | HHCORandomMINMAX | HHLA |
|---|---|---|---|---|---|---|---|---|
| | MaF01 | **9.62E-4** | 9.95E-4 | 1.2E-3 | 1.22E-3 | 1.23E-3 | 1.26E-3 | 1.34E-3 |
| | MaF02 | **5.01E-3** | 5.26E-3 | 6.68E-3 | 6.94E-3 | 6.87E-3 | 6.86E-3 | 1.08E-2 |
| | MaF03 | 6.07E-1 | **4.67E-4** | 2.81E2 | 7.81E-4 | 6.1E-1 | 9.93E-4 | 6.3E5 |
| | MaF04 | **1.36E-2** | 1.39E-2 | 1.86E-2 | 1.88E-2 | 1.98E-2 | 1.92E-2 | 1.83E-1 |
| | MaF05 | 1.36E-2 | **1.35E-2** | 1.93E-2 | 1.92E-2 | 2.21E-2 | 1.98E-2 | 2.76E-2 |
| | MaF06 | **1.45E-5** | 1.5E-5 | 4.25E-5 | 4.45E-5 | 3.9E-5 | 3.76E-5 | 6.08E-4 |
| | MaF07 | **1.61E-3** | 1.72E-3 | 2.31E-3 | 2.37E-3 | 2.37E-3 | 2.49E-3 | 4.29E-3 |
| | MaF08 | 7.14E-4 | **7.01E-4** | 1.07E-3 | 1.08E-3 | 1.24E-3 | 1.13E-3 | 2.77E-3 |
| 5 | MaF09 | **7.51E-4** | 7.59E-4 | 1.1E-3 | 1.14E-3 | 1.29E-3 | 1.24E-3 | 1.35E-3 |
| | MaF10 | 8.02E-3 | **5.43E-3** | 8.43E-3 | 5.94E-3 | 9.11E-3 | 6.31E-3 | 1.71E-2 |
| | MaF11 | 5.76E-3 | **5.38E-3** | 9.64E-3 | 8.68E-3 | 7.32E-3 | 6.67E-3 | 4.56E-2 |
| | MaF12 | **7.08E-3** | 7.11E-3 | 1.03E-2 | 1.03E-2 | 1.08E-2 | 1.04E-2 | 1.38E-2 |
| | MaF13 | 7.55E-4 | **6.14E-4** | 8.84E-4 | 7.79E-4 | 9.93E-4 | 8.86E-4 | 2.25E-3 |
| | MaF14 | **4.71E-3** | 5.27E-3 | 6.4E-3 | 5.98E-3 | 5.6E-3 | 6.04E-3 | 5.9E-3 |
| | MaF15 | 4.23E-3 | **2.36E-3** | 9.79E-3 | 5.99E-3 | 4.7E-3 | 5.53E-3 | 8.48E-3 |
| | MaF01 | **2.18E-3** | 2.24E-3 | 2.7E-3 | 2.75E-3 | 2.66E-3 | 2.82E-3 | 3.35E-3 |
| | MaF02 | **1.57E-3** | 1.59E-3 | 1.98E-3 | 1.99E-3 | 1.96E-3 | 1.98E-3 | 4.14E-3 |
| | MaF03 | 9.5E-1 | **8.47E-4** | 1.73E3 | 2.64E2 | 1.24E0 | 1.85E-3 | 2.64E6 |
| | MaF04 | **5.08E-1** | 5.33E-1 | 6.78E-1 | 6.93E-1 | 6.86E-1 | 7.09E-1 | 9.06E0 |
| | MaF05 | 5.81E-1 | **5.65E-1** | 9.62E-1 | 9.39E-1 | 1.45E0 | 1.21E0 | 1.45E0 |
| | MaF06 | 8.56E-3 | **1.18E-4** | 1.45E-2 | 3.49E-3 | 8.65E-3 | 1.01E-3 | 1.53E-2 |
| | MaF07 | **4.16E-3** | 4.32E-3 | 6.46E-3 | 6.47E-3 | 6.48E-3 | 6.61E-3 | 2.93E-2 |
| 10 | MaF08 | 9.1E-4 | **8.98E-4** | 1.3E-3 | 1.3E-3 | 1.43E-3 | 1.39E-3 | 1.1E-2 |
| | MaF09 | 1.58E-3 | **1.19E-3** | 1.79E-2 | 1.33E-2 | 7.43E-3 | 1.46E-2 | 9.28E-3 |
| | MaF10 | 1.72E-2 | **1.37E-2** | 1.87E-2 | 1.51E-2 | 1.94E-2 | 1.59E-2 | 3.62E-2 |
| | MaF11 | 1.15E-2 | **1.06E-2** | 2.57E-2 | 2.41E-2 | 1.69E-2 | 1.58E-2 | 1.29E-1 |
| | MaF12 | **3.85E-2** | 3.91E-2 | 5.09E-2 | 5.26E-2 | 5.15E-2 | 5.09E-2 | 6.14E-2 |
| | MaF13 | 8.45E-4 | **8.33E-4** | 1.03E-3 | 1.01E-3 | 1.16E-3 | 1.16E-3 | 3.01E-3 |
| | MaF14 | 7.88E-3 | **7.42E-3** | 1.06E-2 | 1.12E-2 | 8.36E-3 | 8.39E-3 | 1.32E-1 |
| | MaF15 | 6.26E-3 | **5.89E-3** | 5.13E-2 | 1.64E-2 | 9.56E-3 | 1.16E-2 | 1.23E-2 |
| | MaF01 | **3.13E-3** | 3.4E-3 | 3.89E-3 | 4.02E-3 | 4.11E-3 | 4.36E-3 | 4.86E-3 |
| | MaF02 | **2.15E-3** | | 2.54E-3 | 2.57E-3 | 2.76E-3 | 2.82E-3 | 5.18E-3 |
| | MaF03 | 8.03E-2 | **1.26E-2** | 1.13E-1 | 2.58E-3 | 8.29E-2 | 2.48E-3 | 2.41E5 |
| | MaF04 | **1.99E1** | 2.16E1 | 2.63E1 | 2.82E1 | 2.65E1 | 2.79E1 | 4.35E2 |
| | MaF05 | 2.09E1 | **2.08E1** | 3.68E1 | 3.49E1 | 5.02E1 | 5.03E1 | 5.44E1 |
| | MaF06 | 3.95E-3 | **2.02E-4** | 1.21E-2 | 4.1E-3 | 4.55E-3 | 5.65E-3 | 3.59E-1 |
| | MaF07 | **1.07E-2** | 1.1E-2 | 1.29E-2 | 1.28E-2 | 1.34E-2 | 1.34E-2 | 4.95E-2 |
| 15 | MaF08 | **2.11E0** | 2.42E0 | 2.11E0 | 2.42E0 | 2.11E0 | 2.42E0 | 3.2E0 |
| | MaF09 | **1.77E-3** | 1.78E-3 | 2.68E-3 | 2.52E-3 | 3.04E-3 | 2.8E-3 | 9.97E-3 |
| | MaF10 | 2.18E-2 | **2.17E-2** | 2.64E-2 | 2.73E-2 | 2.68E-2 | 2.69E-2 | 5.5E-2 |
| | MaF11 | 3.58E-3 | **2.66E-3** | 7.57E-2 | 7.29E-2 | 3.27E-2 | 3.36E-2 | 1.91E-1 |
| | MaF12 | **8.74E-2** | 9.08E-2 | 1.16E-1 | 1.18E-1 | 1.18E-1 | 1.13E-1 | 1.27E-1 |
| | MaF13 | 1.22E-2 | **1.21E-3** | 1.71E-3 | 1.68E-3 | 1.97E-3 | 2.13E-3 | 4.49E-3 |
| | MaF14 | 1.23E-2 | **1.14E-2** | 1.42E-2 | 1.27E-2 | 1.37E-2 | 1.3E-2 | 1.51E-1 |
| | MaF15 | 1.05E-2 | **8.46E-3** | 6.54E-2 | 1.96E-2 | 1.54E-2 | 1.38E-2 | 2.77E-1 |