**Table CEC 2019 test suite.**

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| --- | --- | --- | --- | --- |
| Func. | Descriptions | f\_min | Search Range | Dim |
| CEC-01 | Storn’s Chebyshev Polynomial Fitting Problem | 1 | [8192, 8192] | 9 |
| CEC-02 | Inverse Hilbert Matrix Problem | 1 | [16384, 16384] | 16 |
| CEC-03 | Lennard-Jones Minimum EnergyCluster | 1 | [4, 4] | 18 |
| CEC-04 | Rastrigin’s Function | 1 | [-100, 100] | 10 |
| CEC-05 | Griewangk’s Function | 1 | [-100, 100] | 10 |
| CEC-06 | Weierstrass Function | 1 | [-100, 100] | 10 |
| CEC-08 | Expanded Schaffer’s Function | 1 | [-100, 100] | 10 |
| CEC-09 | Happy Function | 1 | [-100, 100] | 10 |
| CEC-10 | Ackley Function | 1 | [-100, 100] | 10 |