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1 /Users/meijiaojiao/opt/anaconda3/envs/RunToEnd/bin/python /Users/meijiaojiao/Desktop/Evolution_algorithm/stuck in local minima/L/Lamarck_main.py
2 [['iterations', 'mutation_rate', 'num_individuals', 'crossover_probability', 'Mutation_type', 'Crossover_type', 'local_search_rate', 'Local_search_type', 'R']]
3 [[1000000, 1.0, 200, 0.6, 'Normal', 'Probabilistic_crossover', 0.5, 'Uniform', 0.1]] [579]
4 2022-11-20 20:18:49
5 Now testing Function21
6 Times is 0
7 Iter at 1998, best solution is -2.68271E+00, optima is -10.1532, similarity is 2.10926E+00, phenotype is [5.995339945026083, 5.998242623496058, 5.999628741441387, 5.99745637452042]
8 Iter at 3998, best solution is -2.68274E+00, optima is -10.1532, similarity is 0.00000E+00, phenotype is [5.995339945026083, 5.998242623496058, 5.999628741441387, 5.99745637452042]
9 Iter at 5998, best solution is -2.68282E+00, optima is -10.1532, similarity is 3.01962E-01, phenotype is [5.99813804367509, 5.998242623496058, 5.998831227183916, 5.998683650815576]
10 Iter at 7998, best solution is -2.68282E+00, optima is -10.1532, similarity is 0.00000E+00, phenotype is [5.99813804367509, 5.998242623496058, 5.998831227183916, 5.998683650815576]
11 Iter at 9998, best solution is -9.94538E+00, optima is -10.1532, similarity is 3.68961E+01, phenotype is [3.963923375605676, 4.021855957488006, 3.984220351897492, 3.990334268841925]
12 Iter at 11998, best solution is -1.01400E+01, optima is -10.1532, similarity is 1.60212E+00, phenotype is [4.000070745664063, 3.995703585940841, 3.995987807372809, 3.990334268841925]
13 Iter at 13998, best solution is -1.01481E+01, optima is -10.1532, similarity is 1.80865E+00, phenotype is [4.000070745664063, 3.995703585940841, 3.995987807372809, 3.996314722582578]
14 Iter at 15998, best solution is -1.01497E+01, optima is -10.1532, similarity is 0.00000E+00, phenotype is [4.000070745664063, 3.995703585940841, 3.9989799039687695, 3.996314722582578]
15 Iter at 17998, best solution is -1.01516E+01, optima is -10.1532, similarity is 1.92675E+00, phenotype is [4.000070745664063, 3.999671015353294, 3.9989799039687695, 3.996314722582578]
16 Iter at 19998, best solution is -1.01531E+01, optima is -10.1532, similarity is 0.00000E+00, phenotype is [4.000070745664063, 3.999671015353294, 3.9989799039687695, 3.999954819178883]
17 Iter at 21998, best solution is -1.01531E+01, optima is -10.1532, similarity is 1.14768E+00, phenotype is [4.000070745664063, 3.999671015353294, 3.9989799039687695, 3.999954819178883]
18 current optimal is -10.1532,global minima is -10.1532,similarity is 0.17428836882883258
19
20 Process finished with exit code 0
21
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