File - data mining

/Users/meijiaojiao/opt/anaconda3/envs/RunToEnd/bin/python "/Users/meijiaojiao/Desktop/New Evolution/data_mining.py" iterations mutation_rate ... range_mutation crossover_probability 0 10000 5.0 ... 0.01 0.4 5.0 1.0 1 10000 0.01 . . . 2 10000 5.0 0.25 0.4 3 10000 5.0 0.25 1.0 . . . 4 10000 5.0 0.55 0.4 571 10000 10.0 0.25 1.0 572 0.55 0.4 10000 10.0 573 10000 10.0 0.55 1.0 574 10000 10.0 0.90 0.4 . . . 575 10000 10.0 ... 1.0 0.90

[576 rows x 7 columns]

This is the result for Badlwin(F1)

Lamarck2 Lamarck3 ... Lamarck574 Lamarck1 Lamarck575 Lamarck576 F22 Times1 -2.765463 -1.837588 -1.818335 -9.065013 -2.434682 -4.974778 Times2 -2.765746 -5.087638 -4.198410 -9.740266 -3.470111 -6.690302 -4.087527 Times3 -1.837447 -3.724295 -2.609408 -7.721557 -9.662816 Times4 -3.724206 -2.751914 -5.154236 -4.683832 -6.035122 -8.004059 -3.788424 Times5 -3.723736 -2.751929 -4.787147 -6.974120 -6.834994 Times6 -10.399370 -10.402755 -9.306710 -4.857097 -5.674850 -7,229791 Times7 -5.087182 -1.837588 -9.678433 -9.077880 -2.372965 -8.221279

[7 rows x 576 columns]

This is the result:max_min_std_mean for Badlwin(F1)

[4 rows x 576 columns]

4.164062

Std

```
This is min index for the four rows
Max
        514
Min
        449
Std
       514
       271
Mean
dtype: int64
This is min value for the four rows
Max -8 483470
                        the optimal is -10.4028, it is pretty close.
Min
      -10.402907
ST0 0.388858
       -8.021173
Mean
dtype: float64
This is min combiantion for the four rows
['iterations', 'mutation_rate', 'local_search', 'num_individuals', 'm_range', 'range_mutation', 'crossover_probability']
[10000 0 10 0 5 0 /00 0 0 05 0 25 0 /]
[10000.0, 10.0, 1.0, 800.0, 0.05, 0.01, 1.0]
[10000.0, 10.0, 5.0, 400.0, 0.05, 0.25, 0.4]
[10000.0, 5.0, 5.0, 800.0, 0.35, 0.9, 1.0]
This is max index for the four rows
Max
        502
Min
        216
        23
Std
Mean
       216
dtype: int64
This is max value for the four rows
      -1.192879
Max
Min
      -3.154075
```

File - data_mining

Mean -1.996986 dtype: float64

This is max combiantion for the four rows [10000.0, 10.0, 5.0, 50.0, 0.8, 0.9, 0.4] [10000.0, 5.0, 5.0, 50.0, 1.2, 0.01, 0.4] [10000.0, 5.0, 0.01, 50.0, 0.8, 0.9, 1.0] [10000.0, 5.0, 5.0, 50.0, 1.2, 0.01, 0.4]

Process finished with exit code 0