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

[576 rows x 7 columns]

This is the result for Badlwin(F1)

	Lamarck1	Lamarck2	Lamarck3	...	Lamarck574	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
Times3	-1.837447	-3.724295	-2.609408	...	-7.721557	-4.087527	-9.662816
Times4	-3.724206	-2.751914	-5.154236	...	-4.683832	-6.035122	-8.004059
Times5	-3.723736	-2.751929	-4.787147	...	-6.974120	-3.788424	-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)

	0	1	2	...	573	574	575
Max	-1.837447	-1.837588	-1.818335	...	-4.683832	-2.372965	-4.974778
Min	-10.399370	-10.402755	-9.678433	...	-9.740266	-6.035122	-9.662816
Std	3.370582	3.500124	3.301018	...	2.180801	1.547509	1.727793
Mean	-3.916938	-3.713392	-4.574843	...	-6.436306	-3.472426	-6.452782

[4 rows x 576 columns]

This is min index for the four rows

Max 514
Min 449
Std 514
Mean 271
dtype: int64

This is min value for the four rows

Max -8.483470
Min -10.402907
Std 0.388858
Mean -8.021173
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, 400.0, 0.05, 0.25, 0.4]
[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
Std 23
Mean 216
dtype: int64

This is max value for the four rows

Max -1.192879
Min -3.154075
Std 4.164062

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