genetic_algorithm

Parameters


```
cm_name: ga_30
dataframe_in: data_missing_30
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
  algorithm: epsNSGAII
  decision_variables:
    keys:
    - max_keys
  decision_variables_names:
  - graph_structure
  epsilons:
  - 0.1
  ground_truth_topology:
    keys:
    - max_keys
  n_iterations: 100
  nfe: 10000
  num_pool: 4
  population_size: 100
  seed: 21
report_parameters: {}
running_time: 181159.71551060677
type: calibrationmodel
version: 1.0.0
```


Results

Summary CalibrationModel with solutions

	graph_structure	min_distance
0	36945	2.419715

and eprogress is [5, 6]

genetic_algorithm

Parameters

cm_name: ga_40
dataframe_in: data_missing_40
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
  algorithm: epsNSGAII
  decision_variables:
    keys:
    - max_keys
  decision_variables_names:
  - graph_structure
  epsilons:
  - 0.1
  ground_truth_topology:
    keys:
    - max_keys
  n_iterations: 100
  nfe: 10000
  num_pool: 4
  population_size: 100
  seed: 21
report_parameters: {}
running_time: 189292.73301839828
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions

	graph_structure	min_distance
0	17746	3.831719

and eprogress is [6, 6, 6, 7, 7, 8, 8, 8, 8, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11]

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
ga_40	genetic_algorithm	0.97	manhattan_metrics	data_missing_40	189292.733 sec
ga_30	genetic_algorithm	0.98	manhattan_metrics	data_missing_30	181159.716 sec