

genetic_algorithm

```
cm_name: ga_80
dataframe_in: data_missing_80
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
  algorithm: epsNSGAI1
  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: 6
report_parameters: {}
running_time: 186915.27217769623
type: calibrationmodel
version: 1.0.0
```

Results

Summary CalibrationModel with solutions

[illegible]

genetic_algorithm

```
cm_name: ga_70
dataframe_in: data_missing_70
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
  algorithm: epsNSGAI1
  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: 6
report_parameters: {}
running_time: 186640.26204037666
type: calibrationmodel
version: 1.0.0
```

Results

Summary CalibrationModel with solutions

[illegible]

Summary

| Model Name | Model Method | Score | Difference Function | Dataframe | Duration |
|------------|-------------------|-------|---------------------|-----------------|----------------|
| ga_80 | genetic_algorithm | 0.97 | manhattan_metrics | data_missing_80 | 186915.272 sec |
| ga_70 | genetic_algorithm | 0.97 | manhattan_metrics | data_missing_70 | 186640.262 sec |