

# genetic\_algorithm

```
cm_name: ga_60
dataframe_in: data_missing_60
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: 1
report_parameters: {}
running_time: 184260.30278539658
type: calibrationmodel
version: 1.0.0
```

## Results

## Summary CalibrationModel with solutions

[illegible]

# genetic\_algorithm

```
cm_name: ga_50
dataframe_in: data_missing_50
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: 1
report_parameters: {}
running_time: 184657.9140677452
type: calibrationmodel
version: 1.0.0
```

## Results

## Summary CalibrationModel with solutions

[illegible]

# Summary

| Model Name | Model Method      | Score | Difference Function | Dataframe       | Duration       |
|------------|-------------------|-------|---------------------|-----------------|----------------|
| ga_60      | genetic_algorithm | 0.97  | manhattan_metrics   | data_missing_60 | 184260.303 sec |
| ga_50      | genetic_algorithm | 1.0   | manhattan_metrics   | data_missing_50 | 184657.914 sec |