

powell_method

Parameters

cm_name: powell_90
dataframe_in: data_missing_90
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
 decision_variables:
 keys:
 - max_keys
 decision_variables_names:
 - graph_structure
 epsilons:
 - 1
 ground_truth_topology:
 keys:
 - max_keys
 initial_points: 100
 n_draws: 20000
 n_iterations: 100
 nfe: 1500
 num_pool: 1
 population_size: 100
 seed: 11
report_parameters: {}
running_time: 3611.5332164764404
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

| | graph_structure | Distance | round |
|---|-----------------|----------|---------|
| 0 | 14678.596913 | 3.339624 | 14679.0 |

powell_method

Parameters

cm_name: powell_70
dataframe_in: data_missing_70
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
 decision_variables:
 keys:
 - max_keys
 decision_variables_names:
 - graph_structure
 epsilons:
 - 1
 ground_truth_topology:
 keys:
 - max_keys
 initial_points: 100
 n_draws: 20000
 n_iterations: 100
 nfe: 1500
 num_pool: 1
 population_size: 100
 seed: 11
report_parameters: {}
running_time: 2064.016086578369
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

| | graph_structure | Distance | round |
|---|-----------------|----------|---------|
| 0 | 15279.313525 | 4.151618 | 15279.0 |

powell_method

Parameters

cm_name: powell_80
dataframe_in: data_missing_80
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
 decision_variables:
 keys:
 - max_keys
 decision_variables_names:
 - graph_structure
 epsilons:
 - 1
 ground_truth_topology:
 keys:
 - max_keys
 initial_points: 100
 n_draws: 20000
 n_iterations: 100
 nfe: 1500
 num_pool: 1
 population_size: 100
 seed: 11
report_parameters: {}
running_time: 2624.1299250125885
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

| | graph_structure | Distance | round |
|---|-----------------|----------|---------|
| 0 | 16655.756137 | 3.168632 | 16656.0 |

Summary

| Model Name | Model Method | Score | Difference Function | Dataframe | Duration |
|------------|---------------|-------|---------------------|-----------------|--------------|
| powell_90 | powell_method | 0.96 | manhattan_metrics | data_missing_90 | 3611.533 sec |
| powell_80 | powell_method | 0.97 | manhattan_metrics | data_missing_80 | 2624.130 sec |
| powell_70 | powell_method | 0.96 | manhattan_metrics | data_missing_70 | 2064.016 sec |