

powell_method

Parameters

cm_name: powell_10
dataframe_in: data_missing_10
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: 16
report_parameters: {}
running_time: 1992.145833015442
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	17505.042256	3.017558	17505.0

powell_method

Parameters

cm_name: powell_20
dataframe_in: data_missing_20
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: 16
report_parameters: {}
running_time: 2023.0369670391083
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16656.202026	2.978602	16656.0

powell_method

Parameters

cm_name: powell_30
dataframe_in: data_missing_30
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: 1
report_parameters: {}
running_time: 1996.0664772987366
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.64045	4.569064	15279.0

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_30	powell_method	0.96	manhattan_metrics	data_missing_30	1996.066 sec
powell_20	powell_method	0.97	manhattan_metrics	data_missing_20	2023.037 sec
powell_10	powell_method	0.97	manhattan_metrics	data_missing_10	1992.146 sec