

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: 1
report_parameters: {}
running_time: 2761.249092578888
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16656.3146	3.503095	16656.0

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: 1
report_parameters: {}
running_time: 1829.430278301239
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15215.45055	4.064885	15215.0

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: 1
report_parameters: {}
running_time: 3742.5966165065765
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	14140.42027	4.343501	14140.0

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_90	powell_method	0.97	manhattan_metrics	data_missing_90	2761.249 sec
powell_80	powell_method	0.96	manhattan_metrics	data_missing_80	3742.597 sec
powell_70	powell_method	0.96	manhattan_metrics	data_missing_70	1829.430 sec