

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: 6
report_parameters: {}
running_time: 5689.455963373184
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.64045	4.693233	15279.0

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: 3623.282353401184
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16656.3146	5.492568	16656.0

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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: 6
report_parameters: {}
running_time: 3475.6020715236664
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.640426	3.739424	15279.0

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_30	powell_method	0.97	manhattan_metrics	data_missing_30	3623.282 sec
powell_20	powell_method	0.96	manhattan_metrics	data_missing_20	5689.456 sec
powell_10	powell_method	0.96	manhattan_metrics	data_missing_10	3475.602 sec