powell_method

Parameters

cm_name: powell_0_s21
dataframe_in: data_transformed_0
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: 2500
  num_pool: 1
  population_size: 100
  seed: 21
report_parameters: {}
running_time: 6182.6506423950195
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16656.138591	2.798443	16656.0

powell_method

Parameters

cm_name: powell_0_s16
dataframe_in: data_transformed_0
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: 2500
  num_pool: 1
  population_size: 100
  seed: 16
report_parameters: {}
running_time: 3552.13121676445
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	14105.206039	4.048516	14105.0

powell_method

Parameters

cm_name: powell_0_s26
dataframe_in: data_transformed_0
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: 2500
  num_pool: 1
  population_size: 100
  seed: 26
report_parameters: {}
running_time: 2794.1960833072662
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	17505.118922	2.831183	17505.0

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_0_s26	powell_method	0.97	manhattan_metrics	data_transformed_0	2794.196 sec
powell_0_s21	powell_method	0.97	manhattan_metrics	data_transformed_0	6182.651 sec
powell_0_s16	powell_method	0.96	manhattan_metrics	data_transformed_0	3552.131 sec