genetic_algorithm
Parameters

cm_name: ga_80
dataframe_in: data_missing_80
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
   algorithm: epsNSGAII
   decision_variables:
     keys:
     - max_keys
   decision_variables_names:
   - graph_structure
   epsilons:
   - 0.1
   ground_truth_topology:
     keys:
     - max_keys
   n_iterations: 100
   nfe: 10000
   num_pool: 4
   population_size: 100
   seed: 16
report_parameters: {}
running_time: 184936.26220273972
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions
   graph_structure min_distance
0   30712   2.154249
 and eprogress is [2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5]

genetic_algorithm
Parameters

cm_name: ga_70
dataframe_in: data_missing_70
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
   algorithm: epsNSGAII
   decision_variables:
     keys:
     - max_keys
   decision_variables_names:
   - graph_structure
   epsilons:
   - 0.1
   ground_truth_topology:
     keys:
     - max_keys
   n_iterations: 100
   nfe: 10000
   num_pool: 4
   population_size: 100
   seed: 16
report_parameters: {}
running_time: 190114.67262482643
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions
   graph_structure min_distance
0   31766   2.245842
 and eprogress is [2, 2, 2, 2, 3, 3, 3, 4]

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
ga_80	genetic_algorithm	0.97	manhattan_metrics	data_missing_80	184936.262 sec
ga_70	genetic_algorithm	0.97	manhattan_metrics	data_missing_70	190114.673 sec