genetic_algorithm

Parameters

cm_name: ga_90_s6

dataframe_in: data_missing_90

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: 6

report_parameters: {}

running_time: 194031.24071526527

type: calibrationmodel

version: 1.0.0

Results

Summary CalibrationModel with solutions

   graph_structure min_distance

0   17112   7.470796

 and eprogress is [3, 3, 4]

genetic_algorithm
Parameters

cm_name: ga_90_s1
dataframe_in: data_missing_90
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: 1
report_parameters: {}
running_time: 187973.73764705658
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions
   graph_structure min_distance
0   37978   6.84916
 and eprogress is [3, 4, 5, 5, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8]

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
ga_90_s6	genetic_algorithm	0.97	manhattan_metrics	data_missing_90	194031.241 sec
ga_90_s1	genetic_algorithm	0.99	manhattan_metrics	data_missing_90	187973.738 sec