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: 21
report_parameters: {}
running_time: 187357.94674420357
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions

	graph_structure	min_distance
0	37909	2.102809

and eprogress is [2, 3, 3, 3, 4, 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, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7]

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: 26
report_parameters: {}
running_time: 187786.44183421135
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions

	graph_structure	min_distance
0	27572	2.163666

and eprogress is [4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 7]

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
ga_90_s6	genetic_algorithm	0.97	manhattan_metrics	data_missing_90	187786.442 sec
ga_90_s1	genetic_algorithm	0.99	manhattan_metrics	data_missing_90	187357.947 sec