approximate_bayesian_computation

Parameters

cm_name: abc_80

dataframe_in: data_missing_80

description: Approximate Bayesian Computation for Time Series

diff_func_name: manhattan_metrics

diff_func_parameters: {}

model_method: approximate_bayesian_computation

name: approximate_bayesian_computation

parameters:

  algorithm: pydream

  decision_variables:

    keys:

    - max_keys

  decision_variables_names:

  - graph_structure

  epsilons:

  - 1

  ground_truth_topology:

    keys:

    - max_keys

  initial_points: 100

  n_chains: 3

  n_draws: 15000

  n_iterations: 100

  nfe: 15000

  num_pool: 1

  population_size: 100

  seed: 1

report_parameters: {}

running_time: 189707.1481335163

type: calibrationmodel

version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	16767.361382	19.237515
1	0.000000	19.442909
2	0.000000	21.594826
3	0.000000	20.052038
4	0.000000	20.488129
...	...	...
19371	0.000175	20.203692
19372	0.000175	19.344379
19373	0.000175	20.785863
19374	0.000175	21.005833
19375	0.000176	20.623933

[19376 rows x 2 columns]

with the most optimal solution:

	graph_structure	Distance	round
0	15988.217867	17.777932	15988.0

with an acceptance percentage of 17.441576056745156%