approximate_bayesian_computation

Parameters

cm_name: abc_40

dataframe_in: data_missing_40

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: 321607.9655034542

type: calibrationmodel

version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	1.676736e+04	20.149904
1	0.000000e+00	22.125304
2	0.000000e+00	21.930322
3	0.000000e+00	21.611766
4	0.000000e+00	23.338684
...	...	...
5560	6.121784e-07	20.597243
5561	6.135201e-07	20.921446
5562	6.148617e-07	24.091192
5563	6.148617e-07	23.213962
5564	6.162034e-07	20.931940

[5565 rows x 2 columns]

with the most optimal solution:

	graph_structure	Distance	round
0	15988.217867	15.415403	15988.0

with an acceptance percentage of 8.293865208013697%