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: 11

report_parameters: {}

running_time: 182995.66256546974

type: calibrationmodel

version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	0.000000e+00	22.743995
1	0.000000e+00	21.655133
2	0.000000e+00	21.421378
3	0.000000e+00	22.204962
4	0.000000e+00	20.018758
...	...	...
9386	9.971892e-10	21.932648
9387	7.536008e-10	23.503620
9388	5.100124e-10	23.412448
9389	2.664240e-10	23.597567
9390	2.283565e-11	23.905296

[9391 rows x 2 columns]

with the most optimal solution:

	graph_structure	Distance	round
0	0.0	18.385728	0.0

with an acceptance percentage of 13.345785248927136%