

approximate_bayesian_computation

Parameters

cm_name: abc_90_s1
dataframe_in: data_missing_90
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: 184831.2710058689
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|-------|-----------------|-----------|
| 0 | 0.000000e+00 | 21.768833 |
| 1 | 0.000000e+00 | 20.369687 |
| 2 | 0.000000e+00 | 19.995989 |
| 3 | 0.000000e+00 | 21.124952 |
| 4 | 0.000000e+00 | 20.162725 |
| ... | ... | ... |
| 15883 | 1.646237e-09 | 21.008361 |
| 15884 | 1.647986e-09 | 19.925415 |
| 15885 | 1.649736e-09 | 22.531546 |
| 15886 | 1.087792e-09 | 19.804884 |
| 15887 | 5.258489e-10 | 19.458158 |

[15888 rows x 2 columns]

with the most optimal solution:

| | graph_structure | Distance | round |
|---|-----------------|----------|-------|
| 0 | 1.889070e-07 | 18.35291 | 0.0 |
| 1 | 1.907061e-07 | 18.35291 | 0.0 |
| 2 | 1.842293e-07 | 18.35291 | 0.0 |

with an acceptance percentage of 21.214951192937985%