

approximate_bayesian_computation

Parameters

cm_name: abc_30
dataframe_in: data_missing_30
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: 26
report_parameters: {}
running_time: 184095.6848502159
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|-------|-----------------|-----------|
| 0 | 3.159753e+04 | 48.153855 |
| 1 | 3.156725e+04 | 45.008375 |
| 2 | 3.153696e+04 | 33.114240 |
| 3 | 1.022303e+04 | 17.615843 |
| 4 | 1.022303e+04 | 18.066367 |
| ... | ... | ... |
| 24795 | 1.603224e-10 | 18.154785 |
| 24796 | 1.605184e-10 | 17.961186 |
| 24797 | 1.607144e-10 | 18.183463 |
| 24798 | 1.609104e-10 | 19.795292 |
| 24799 | 1.611064e-10 | 18.615566 |

[24800 rows x 2 columns]

with the most optimal solution:

| | graph_structure | Distance | round |
|--|-----------------|----------|-------|
|--|-----------------|----------|-------|

| | | | |
|---|-----|-----------|-----|
| 0 | 0.0 | 16.669574 | 0.0 |
|---|-----|-----------|-----|

with an acceptance percentage of 31.216507682387213%