

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: 21
report_parameters: {}
running_time: 186402.625988245
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|----|-----------------|------------|
| 0 | 2782.768614 | 103.819641 |
| 1 | 0.000000 | 104.106963 |
| 2 | 0.000000 | 102.272715 |
| 3 | 0.000000 | 101.088661 |
| 4 | 0.000000 | 87.812261 |
| 5 | 0.000000 | 84.302853 |
| 6 | 0.000000 | 82.646270 |
| 7 | 0.000000 | 83.299310 |
| 8 | 0.000000 | 82.690675 |
| 9 | 0.000000 | 81.204476 |
| 10 | 0.000000 | 81.483450 |
| 11 | 0.000000 | 80.589960 |
| 12 | 0.000000 | 79.844538 |

| | | |
|----|--------------|------------|
| 13 | 0.000000 | 85.181530 |
| 14 | 0.000000 | 87.834999 |
| 15 | 0.000000 | 84.197813 |
| 16 | 30756.094153 | 210.767362 |
| 17 | 39999.000000 | 185.843646 |
| 18 | 39999.000000 | 183.301350 |
| 19 | 39999.000000 | 172.384224 |
| 20 | 39999.000000 | 171.788923 |
| 21 | 39999.000000 | 162.899820 |
| 22 | 0.000000 | 109.807017 |
| 23 | 0.000000 | 106.048976 |
| 24 | 0.000000 | 104.477571 |
| 25 | 0.000000 | 104.171709 |
| 26 | 0.000000 | 101.563558 |
| 27 | 0.000000 | 97.698008 |
| 28 | 0.000000 | 84.964029 |
| 29 | 0.000000 | 86.674977 |
| 30 | 0.000000 | 86.275227 |
| 31 | 0.000000 | 88.323565 |
| 32 | 0.000000 | 84.401971 |
| 33 | 0.000000 | 84.548652 |
| 34 | 0.000000 | 82.236231 |
| 35 | 0.000000 | 79.922664 |
| 36 | 0.000000 | 84.244260 |
| 37 | 0.000000 | 84.285266 |
| 38 | 0.000000 | 92.190010 |
| 39 | 0.000000 | 91.791619 |
| 40 | 0.000000 | 92.564950 |
| 41 | 0.000000 | 78.839511 |

with the most optimal solution:

| | graph_structure | Distance | round |
|---|-----------------|-----------|-------|
| 0 | 0.0 | 78.839511 | 0.0 |

with an acceptance percentage of 0.011117781780179222%