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: 1
report_parameters: {}
running_time: 213671.08933329582
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	1.676736e+04	103.315849
1	0.000000e+00	95.014947
2	0.000000e+00	95.084133
3	1.598822e+04	94.620677
4	1.598822e+04	92.475085
5	1.598822e+04	93.295638
6	1.598822e+04	89.398215
7	0.000000e+00	89.786136
8	0.000000e+00	86.411816
9	1.624345e-12	84.310052
10	3.248691e-12	80.975131
11	2.276053e-12	84.077358
12	1.303415e-12	81.713832

13 3.307767e-13 78.359089
14 0.000000e+00 121.897633
15 0.000000e+00 103.851658
16 0.000000e+00 102.345733
17 0.000000e+00 97.610358
18 0.000000e+00 94.415526
19 1.598822e+04 94.253377
20 1.598822e+04 91.061028
21 1.598822e+04 95.251500
22 1.598822e+04 95.392456
23 0.000000e+00 89.213308
24 0.000000e+00 88.458942
25 0.000000e+00 85.789292
26 1.624345e-12 83.483950
27 1.624345e-12 80.909892
28 6.517074e-13 84.077358
29 0.000000e+00 81.713832
30 0.000000e+00 78.359089
31 1.598822e+04 83.465405
32 1.598822e+04 82.464286
33 1.598822e+04 84.445138
34 1.598822e+04 82.025142
35 1.598822e+04 81.004644
36 1.598822e+04 80.459940
37 1.598822e+04 81.237774
38 1.598822e+04 80.616170
39 1.598822e+04 79.676603
40 1.598822e+04 78.099662
41 1.598822e+04 78.779854
42 1.598822e+04 77.283529
43 1.598822e+04 76.076133
44 1.598822e+04 76.580975
45 1.598822e+04 78.676989
46 1.598822e+04 78.535990
47 1.598822e+04 74.985614
48 1.598822e+04 77.275865
49 1.598822e+04 73.697108
with the most optimal solution:
graph_structure Distance round
0 15988.217867 73.697108 15988.0
with an acceptance percentage of 0.05336535254486025%