

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: 182801.0955040455
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	0.000000e+00	100.366464
1	0.000000e+00	97.588532
2	0.000000e+00	95.148980
3	0.000000e+00	89.660731
4	0.000000e+00	88.008846
5	1.749455e-12	85.762149
6	4.735863e-11	82.866440
7	9.406498e-11	81.576612
8	9.873512e-11	79.577923
9	1.425208e-10	80.408210
10	1.425208e-10	76.036632
11	0.000000e+00	106.005540
12	0.000000e+00	106.727978

13	0.000000e+00	99.425398
14	0.000000e+00	97.169945
15	0.000000e+00	93.430919
16	1.749455e-12	91.773757
17	5.782209e-13	93.244079
18	0.000000e+00	92.857545
19	1.749455e-12	90.048429
20	3.498909e-12	90.557037
21	3.498909e-12	88.584824
22	1.108974e-11	90.936519
23	1.868057e-11	88.691039
24	2.627141e-11	88.835075
25	0.000000e+00	89.583192
26	0.000000e+00	87.286114
27	4.560917e-11	82.285078
28	8.939484e-11	81.505495
29	1.893002e-10	84.077358
30	1.910496e-10	81.713832
31	1.927991e-10	78.359089
32	0.000000e+00	90.469509
33	1.749455e-12	93.813997
34	6.419598e-12	92.251064
35	6.419598e-12	91.389512
36	1.108974e-11	87.589686
37	1.283920e-11	90.769824
38	2.043003e-11	84.740581
39	2.043003e-11	81.744979
40	1.108725e-10	81.204476
41	2.013149e-10	81.483450
42	2.030644e-10	80.589960
43	2.048138e-10	79.844538
44	2.065633e-10	85.181530
45	2.083127e-10	87.834999
46	2.100622e-10	84.197813

with the most optimal solution:

	graph_structure	Distance	round
0	1.425208e-10	76.036632	0.0

with an acceptance percentage of 0.06893024703711116%