

approximate_bayesian_computation

Parameters

cm_name: abc_20
dataframe_in: data_missing_20
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: 180487.08582997322
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	0.000000e+00	16.073051
1	0.000000e+00	15.192304
2	0.000000e+00	15.581952
3	0.000000e+00	16.804242
4	0.000000e+00	16.331057
...
25269	2.011873e-09	15.273776
25270	1.350626e-09	16.226700
25271	6.893792e-10	15.166071
25272	2.813237e-11	15.301926
25273	2.813237e-11	15.999762

[25274 rows x 2 columns]

with the most optimal solution:

graph_structure Distance round

0 6.411164e-09 14.175618 0.0

with an acceptance percentage of 26.002268027483154%