

approximate_bayesian_computation

Parameters

cm_name: abc_50
dataframe_in: data_missing_50
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: 191702.9837281704
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	16767.361382	17.536736
1	0.000000	17.573844
2	0.000000	19.725752
3	0.000000	18.220747
4	0.000000	18.549322
...
19704	0.000125	19.065401
19705	0.000125	18.727073
19706	0.000125	18.874793
19707	0.000125	18.612469
19708	0.000125	17.695457

[19709 rows x 2 columns]

with the most optimal solution:

graph_structure Distance round

0 15988.217867 16.22385 15988.0

with an acceptance percentage of 17.672825917772887%