

approximate_bayesian_computation

Parameters

cm_name: abc_10
dataframe_in: data_missing_10
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: 16
report_parameters: {}
running_time: 176134.93240308762
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	22546.691528	41.290987
1	33368.040374	40.920009
2	39999.000000	32.751163
3	39999.000000	29.548904
4	39999.000000	29.566967
...
19065	34589.479087	13.757435
19066	34589.479087	14.333598
19067	34589.479087	15.752044
19068	34589.479087	14.636899
19069	34589.479087	13.986883

[19070 rows x 2 columns]

with the most optimal solution:

graph_structure Distance round

0 34589.479087 13.273536 34589.0

with an acceptance percentage of 0.013341338136215063%