approximate_bayesian_computation

Parameters

cm_name: abc_80
dataframe_in: data_missing_80
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: 183050.7530925274
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	0.000000e+00	16.479529
1	0.000000e+00	15.563024
2	0.000000e+00	16.080040
3	0.000000e+00	17.346557
4	0.000000e+00	16.759521
...	...	...
24882	2.022370e-09	15.784679
24883	2.022370e-09	15.996033
24884	1.349440e-09	16.583168
24885	6.765105e-10	15.580316
24886	3.580840e-12	16.007386

[24887 rows x 2 columns]

with the most optimal solution:

	graph_structure	Distance	round
0	3.445388e-07	14.91951	0.0
1	3.434337e-07	14.91951	0.0

with an acceptance percentage of 26.318013030040245%