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: 11
report_parameters: {}
running_time: 180583.61711072922
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	0.000000e+00	16.203384
1	0.000000e+00	15.478607
2	0.000000e+00	15.422965
3	0.000000e+00	16.645049
4	0.000000e+00	15.924812
...	...	...
21964	1.849174e-09	15.061186
21965	1.849174e-09	15.881618
21966	1.281389e-09	16.079291
21967	7.136040e-10	15.083386
21968	1.458192e-10	15.370391

[21969 rows x 2 columns]

with the most optimal solution:

	graph_structure	Distance	round
0	7.995008e-10	14.347552	0.0
1	8.012503e-10	14.347552	0.0

with an acceptance percentage of 23.54523825406355%