approximate_bayesian_computation

```
cm_name: abc_60
dataframe in: data missing 60
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: 21
report_parameters: {}
running_time: 186135.82035708427
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
    graph_structure Distance
0
      2782.768614 16.329205
1
      2782.768614 16.248178
2
        0.000000 16.045629
3
        0.000000 16.261279
4
        0.000000 15.786744
21843
          0.000000 16.471991
21844
          0.000000 15.892682
21845
          0.000000 16.128724
21846
          0.000000 16.182677
```

0.000000 15.942538

21847

with the most optimal solution:
graph_structure Distance round
0 0.0 14.767939 0.0
with an acceptance percentage of 0.008894225424143375%

approximate_bayesian_computation

```
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: 21
report_parameters: {}
running_time: 186253.50348591805
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
    graph_structure Distance
0
      2782.768614 16.214671
1
      2782.768614 16.133233
2
        0.000000 15.921753
3
        0.000000 16.185340
4
        0.000000 15.673859
22707
          0.000000 16.366690
22708
          0.000000 16.076577
22709
          0.000000 16.319066
22710
          0.000000 15.706049
22711
          0.000000 15.995113
```

with the most optimal solution:
graph_structure Distance round
0 0.0 14.675909 0.0
with an acceptance percentage of 0.008894225424143375%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_60	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_60	186135.820 sec
abc_50	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_50	186253.503 sec