approximate_bayesian_computation

```
cm_name: abc_30
dataframe in: data missing 30
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: 6
report_parameters: {}
running_time: 182116.8153989315
type: calibrationmodel
version: 1.0.0
```

Results

```
graph structure Distance
0
     17525.218903 21.704664
1
     17525.218903 20.838296
2
     17525.218903 20.078081
3
     17525.218903 18.622862
4
        0.000000 18.628391
20215
          0.000000 17.494555
20216
          0.000000 18.109727
20217
          0.000000 19.418288
20218
          0.000000 18.358448
```

0.000000 18.770443

Summary CalibrationModel with solutions:

20219

with the most optimal solution:
graph_structure Distance round
0 0.0 16.669574 0.0
with an acceptance percentage of 0.011117781780179222%

approximate_bayesian_computation

```
cm_name: abc_40
dataframe in: data missing 40
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: 6
report_parameters: {}
running_time: 182922.97076129913
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
    graph structure Distance
0
      17525.218903 21.787302
1
      17525.218903 20.971325
2
      17525.218903 20.220283
3
      17525.218903 18.786951
4
        0.000000 18.670374
12064
          0.000000 19.528812
12065
          0.000000 19.166022
12066
          0.000000 19.706721
12067
          0.000000 18.824177
12068
          0.000000 18.983649
```

with the most optimal solution:
graph_structure Distance round
0 0.0 17.294976 0.0
with an acceptance percentage of 0.011117781780179222%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_40	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_40	182922.971 sec
abc_30	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_30	182116.815 sec