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: 1
report_parameters: {}
running_time: 187647.60374116898
type: calibrationmodel
version: 1.0.0
```

Results

```
graph structure Distance
0
      16767.361382 14.200070
1
      16767.361382 14.334113
2
      16767.361382 14.609773
3
        0.000000 15.781932
4
        0.000000 16.612014
25929
          0.000333 16.239902
25930
          0.000333 16.168377
25931
          0.000333 15.763999
25932
          0.000333 17.391845
```

0.000334 16.731331

Summary CalibrationModel with solutions:

25933

with the most optimal solution:
graph_structure Distance round
15988.217867 13.90575 15988.0
with an acceptance percentage of 22.600226802748317%

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: 1
report_parameters: {}
running_time: 189930.17300319672
type: calibrationmodel
version: 1.0.0
```

Results

```
0
      16767.361382 14.286859
1
      16767.361382 14.426272
2
      16767.361382 14.699853
3
        0.000000 15.879546
4
        0.000000 16.711274
26029
          0.000381 16.305963
26030
          0.000382 16.635355
26031
          0.000382 16.008632
```

0.000383 16.186824

0.000383 16.322245

Summary CalibrationModel with solutions: graph structure Distance

26032

26033

with the most optimal solution:
graph_structure Distance round
15988.217867 14.027458 15988.0
with an acceptance percentage of 22.582438351900027%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_60	approximate_bayesian_computation	0.97	manhattan_metrics	data_missing_60	189930.173 sec
abc_50	approximate_bayesian_computation	0.97	manhattan_metrics	data_missing_50	187647.604 sec