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: 184063.5064792633
type: calibrationmodel
version: 1.0.0
```

Results

```
0 17525.218903 26.538803

1 17525.218903 25.244235

2 17525.218903 24.001607

3 17525.218903 20.967833

4 0.000000 20.302303

... ... ...
```

Summary CalibrationModel with solutions: graph structure Distance

with the most optimal solution:
graph_structure Distance round
0 0.0 16.015873 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: 181866.3486623764
type: calibrationmodel
version: 1.0.0
```

Results

```
graph structure Distance
0
     17525.218903 29.238056
1
     17525.218903 27.769951
2
     17525.218903 26.470348
3
     17525.218903 23.126281
4
       0.000000 22.637979
6510
         0.000000 21.539259
6511
         0.000000 23.387361
6512
         0.000000 23.604833
6513
         0.000000 21.875649
6514
         0.000000 18.874026
```

Summary CalibrationModel with solutions:

with the most optimal solution:
graph_structure Distance round
0 0.0 18.385728 0.0
with an acceptance percentage of 0.008894225424143375%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_40	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_40	181866.349 sec
abc_30	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_30	184063.506 sec