approximate_bayesian_computation

```
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: 6
report_parameters: {}
running_time: 184060.92765903473
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
    graph structure Distance
0
      17525.218903 22.316015
1
      17525.218903 21.316404
2
      17525.218903 20.261742
3
      17525.218903 18.641710
4
        0.000000 16.093659
19366
          0.000000 15.554516
19367
          0.000000 15.979096
19368
          0.000000 15.385561
19369
          0.000000 15.252543
19370
          0.000000 14.659803
```

with the most optimal solution:
graph_structure Distance round
0 0.0 14.347552 0.0
with an acceptance percentage of 0.011117781780179222%

approximate_bayesian_computation

```
cm_name: abc_20
dataframe in: data missing 20
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: 182168.93580532074
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
    graph structure Distance
0
      17525.218903 21.881451
1
      17525.218903 20.885134
2
     17525.218903 20.062044
3
      17525.218903 18.588629
4
        0.000000 16.162601
12772
          0.000000 16.316880
12773
          0.000000 16.156223
12774
          0.000000 15.598773
12775
          0.000000 16.224387
          0.000000 15.079454
12776
```

with the most optimal solution:
graph_structure Distance round
0 0.0 14.265235 0.0
with an acceptance percentage of 0.011117781780179222%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_20	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_20	182168.936 sec
abc_10	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_10	184060.928 sec