approximate_bayesian_computation

```
cm_name: abc_90_s6
dataframe in: data missing 90
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: 183310.52261185646
type: calibrationmodel
version: 1.0.0
```

Results

```
graph structure Distance
0
     17525.218903 23.385284
1
     17525.218903 23.183839
2
     17525.218903 22.271167
3
     17525.218903 20.581215
4
       0.000000 20.873354
9375
         0.000000 20.363061
9376
         0.000000 20.235205
9377
         0.000000 21.424649
9378
         0.000000 21.804235
```

0.000000 21.469116

Summary CalibrationModel with solutions:

9379

with the most optimal solution:
graph_structure Distance round
0 0.0 18.35291 0.0
with an acceptance percentage of 0.011117781780179222%

approximate_bayesian_computation

```
cm_name: abc_90_s1
dataframe in: data missing 90
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: 190417.90342020988
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
    graph structure Distance
0
      16767.361382 19.538657
1
        0.000000 19.772965
2
        0.000000 21.981605
3
        0.000000 20.408682
4
        0.000000 20.837413
18139
          0.000000 19.967817
18140
          0.000000 19.441116
18141
          0.000000 20.162217
18142
          0.000000 20.276921
18143
          0.000000 21.103634
```

with the most optimal solution:
graph_structure Distance round
15988.217867 18.407739 15988.0
with an acceptance percentage of 16.447646365597137%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_90_s6	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_90	183310.523 sec
abc_90_s1	approximate_bayesian_computation	0.97	manhattan_metrics	data_missing_90	190417.903 sec