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: 181347.1081111431
type: calibrationmodel
version: 1.0.0
```

Results

```
graph structure Distance
0
     17525.218903 21.315306
1
     17525.218903 20.387596
2
     17525.218903 19.734742
3
     17525.218903 18.426174
4
       0.000000 16.789873
16125
          0.000000 16.589527
16126
          0.000000 16.411883
16127
          0.000000 16.204656
16128
          0.000000 17.019666
```

0.000000 17.102057

Summary CalibrationModel with solutions:

16129

with the most optimal solution:
graph_structure Distance round
0 0.0 14.774951 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: 191165.67591667175
type: calibrationmodel
version: 1.0.0
```

Results

```
graph structure Distance
0
     16767.361382 14.577132
1
     16767.361382 14.689460
2
     16767.361382 14.979127
3
        0.000000 16.154346
4
        0.000000 16.986197
25281
          0.000000 17.190468
25282
          0.000000 15.813743
25283
          0.000000 16.327580
25284
          0.000000 16.058616
```

0.000000 16.262348

Summary CalibrationModel with solutions:

25285

with the most optimal solution:
graph_structure Distance round
15988.217867 14.419362 15988.0
with an acceptance percentage of 21.566273097191647%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_90_s6	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_90	181347.108 sec
abc_90_s1	approximate_bayesian_computation	0.97	manhattan_metrics	data_missing_90	191165.676 sec