approximate_bayesian_computation

```
cm_name: abc_0_s6
dataframe in: data transformed 0
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
  convergence_progress: true
  decision_variables:
    keys:
    - max_keys
  decision_variables_names:
  - graph_structure
  ground_truth_topology:
    keys:
    - max_keys
  n chains: 3
  n_draws: 22000
  seed: 6
report parameters: {}
running time: 271019.7634716034
type: calibrationmodel
version: 1.0.0
```

Results

```
0
     17525.218903 22.096645
1
     17525.218903 21.089041
2
     17525.218903 20.088071
3
     17525.218903 18.506693
4
       0.000000 16.052051
3986
         0.000000 15.395522
         0.000000 15.638602
3987
         0.000000 15.570564
3988
3989
         0.000000 14.976805
3990
         0.000000 15.459599
[3991 rows x 2 columns]
with the most optimal solution:
```

graph_structure Distance round 0.0 14.40926 0.0

with an acceptance percentage of 0.007606876616461281%

Summary CalibrationModel with solutions:

graph_structure Distance

approximate_bayesian_computation

```
cm_name: abc_0_s1
dataframe in: data transformed 0
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
  convergence_progress: true
  decision_variables:
    keys:
    - max_keys
  decision_variables_names:
  - graph_structure
  ground_truth_topology:
    keys:
    - max_keys
  n chains: 3
  n_draws: 22000
  seed: 1
report parameters: {}
running time: 277621.3814485073
type: calibrationmodel
version: 1.0.0
```

Results

```
graph_structure Distance
0
      1.676736e+04 14.045272
1
      1.676736e+04 14.070398
2
      1.676736e+04 14.228035
3
      0.000000e+00 15.664316
4
      0.000000e+00 16.537510
10741 1.867997e-09 17.001075
10742 1.869622e-09 16.724017
10743
       1.871246e-09 16.444948
10744
       1.872870e-09 16.320341
10745
       1.874495e-09 15.668126
[10746 rows x 2 columns]
with the most optimal solution:
  graph_structure Distance round
    15988.217867 13.613152 15988.0
with an acceptance percentage of 29.17085044880572%
```

Summary CalibrationModel with solutions:

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_0_s6	approximate_bayesian_computation	0.96	manhattan_metrics	data_transformed_0	271019.763 sec
abc_0_s1	approximate_bayesian_computation	0.97	manhattan_metrics	data_transformed_0	277621.381 sec