approximate_bayesian_computation

```
cm_name: abc_0_s16
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: 21500
  seed: 16
report parameters: {}
running time: 378114.0707128048
type: calibrationmodel
version: 1.0.0
```

Results

```
graph_structure Distance
0
     22546.691528 38.191989
1
     33368.040374 33.786354
2
     39999.000000 27.936849
3
     39999.000000 27.638605
4
     39999.000000 27.729260
5476 34589.479087 14.179196
      34589.479087 14.276863
5477
5478
      34589.479087 14.496377
5479
      34589.479087 14.254742
5480
      34589.479087 13.987927
[5481 rows x 2 columns]
with the most optimal solution:
  graph_structure Distance round
   34589.479087 13.288065 34589.0
with an acceptance percentage of 0.009341429238673517%
```

Summary CalibrationModel with solutions:

approximate_bayesian_computation

```
cm_name: abc_0_s11
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: 21500
  seed: 11
report parameters: {}
running time: 260687.14933347702
type: calibrationmodel
version: 1.0.0
```

Results

```
graph_structure Distance
0
      0.000000e+00 16.139815
1
      0.000000e+00 15.455298
2
      0.000000e+00 15.393592
3
      0.000000e+00 16.595578
4
      0.000000e+00 15.907652
16315 4.987568e-07 15.570461
16316 4.991674e-07 15.589135
16317 4.995781e-07 15.697644
16318
       4.999887e-07 16.169422
16319
        5.003994e-07 16.940229
[16320 rows x 2 columns]
with the most optimal solution:
  graph_structure Distance round
        0.0 14.077607 0.0
with an acceptance percentage of 23.48435310602522%
```

Summary CalibrationModel with solutions:

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_0_s16	approximate_bayesian_computation	0.98	manhattan_metrics	data_transformed_0	378114.071 sec
abc_0_s11	approximate_bayesian_computation	0.96	manhattan_metrics	data_transformed_0	260687.149 sec