approximate_bayesian_computation

```
cm_name: abc_0_s26
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: 21000
  seed: 26
report parameters: {}
running time: 416683.98753118515
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
```

```
graph_structure Distance
0
      31597.533350 46.083670
1
      31567.248932 42.564038
2
      31536.964515 26.792851
3
      10160.840331 14.574345
4
      10160.840331 14.523198
16903
          10.725462 15.087162
          10.725462 14.257665
16904
16905
         10.725462 14.300355
16906
          10.725462 14.433548
16907
          10.725462 14.095423
[16908 rows x 2 columns]
with the most optimal solution:
  graph_structure Distance round
     10.725462 13.892132 11.0
with an acceptance percentage of 24.186194803124504%
```

approximate_bayesian_computation

```
cm_name: abc_0_s21
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: 21000
  seed: 21
report parameters: {}
running time: 410995.1478688717
type: calibrationmodel
version: 1.0.0
```

Results

```
graph_structure Distance
0
      2782.768614 16.035347
1
      2782.768614 15.865728
2
       0.000000 15.712417
3
       0.000000 15.980590
4
       0.000000 15.272857
3582
         0.000000 15.364455
         0.000000 15.758565
3583
3584
         0.000000 16.833216
3585
         0.000000 17.067040
3586
         0.000000 17.372762
[3587 rows x 2 columns]
with the most optimal solution:
  graph_structure Distance round
         0.0 14.329889 0.0
with an acceptance percentage of 0.009564801530368245%
```

Summary CalibrationModel with solutions:

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
abc_0_s26	approximate_bayesian_computation	0.96	manhattan_metrics	data_transformed_0	416683.988 sec
abc_0_s21	approximate_bayesian_computation	0.96	manhattan_metrics	data_transformed_0	410995.148 sec