# approximate_bayesian_computation

## Parameters

cm_name: abc_80
dataframe_in: data_missing_80
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: 26
report_parameters: {}
running_time: 184306.3216099739
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|---|---|---|
| 0 | 31597.533350 | 49.734329 |
| 1 | 31567.248932 | 47.068225 |
| 2 | 31536.964515 | 39.427856 |
| 3 | 10160.840331 | 19.755563 |
| 4 | 10160.840331 | 19.661247 |
| ... | ... | ... |
| 21866 | 0.000000 | 19.947786 |
| 21867 | 0.000000 | 20.746873 |
| 21868 | 0.000000 | 20.302473 |
| 21869 | 0.000000 | 20.406857 |
| 21870 | 0.000000 | 20.772494 |

[21871 rows x 2 columns]

with the most optimal solution:

| | graph_structure | Distance | round |
|---|---|---|---|
| 0 | 0.001365 | 18.190252 | 0.0 |

with an acceptance percentage of 21.486225068374356%