# approximate_bayesian_computation

## Parameters

cm_name: abc_50
dataframe_in: data_missing_50
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: 183212.8271226883
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|---|---|---|
| 0 | 17525.218903 | 34.147568 |
| 1 | 17525.218903 | 32.199610 |
| 2 | 17525.218903 | 30.870843 |
| 3 | 17525.218903 | 26.682235 |
| 4 | 0.000000 | 25.922923 |
| ... | ... | ... |
| 5866 | 0.000000 | 24.172942 |
| 5867 | 0.000000 | 24.372635 |
| 5868 | 0.000000 | 27.063159 |
| 5869 | 0.000000 | 27.953048 |
| 5870 | 0.000000 | 26.373127 |

[5871 rows x 2 columns]

with the most optimal solution:

| | graph_structure | Distance | round |
|---|---|---|---|
| 0 | 0.0 | 20.867037 | 0.0 |

with an acceptance percentage of 0.006670669068107531 5%