approximate_bayesian_computation

```
cm_name: abc_90_s6
dataframe in: data missing 90
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: 16
report_parameters: {}
running_time: 296547.4798130989
type: calibrationmodel
version: 1.0.0
```

Results

```
Summary CalibrationModel with solutions:
```

```
graph structure Distance
0
    22546.691528 169.992363
1
    22546.691528 148.368833
2
    22546.691528 137.592393
3
    22546.691528 131.026633
4
    22546.691528 126.361282
5
    22546.691528 108.439991
6
    22546.691528 106.985781
7
    22546.691528 108.958870
8
    22546.691528 100.939448
9
    22546.691528 101.393142
10
   22546.691528 99.998392
11
    12946.781395 187.577050
   12946.781395 185.963726
```

```
13
    23768.130241 185.400299
14
    34589.479087 86.340189
15
    34589.479087 80.304307
16
    34589.479087 74.084078
17
    34589.479087 75.940209
    34589.479087 76.195048
18
19
    34589.479087 76.996509
20
    34589.479087 76.698715
21
    34589.479087 76.822077
22
    34589.479087 76.392955
23
    34589.479087 77.262633
24
    34589.479087 76.222223
25
    34589.479087 76.153635
26
    34589.479087 76.420521
27
    34589.479087 73.782901
28
    34589.479087 73.710542
29
    34589.479087 72.519514
30
    34589.479087 69.194124
31
    34589.479087 68.324396
32
    34589.479087 70.628729
33
    34589.479087 71.263440
34
    34589.479087 68.057726
35
    34589.479087 72.069322
36
    34589.479087 68.673735
37
    23768.130241 183.584878
38
    34589.479087 90.744949
39
    34589.479087 84.523582
40
    34589.479087 84.463034
41
    34589.479087 84.694851
42
    34589.479087 83.192347
43
    34589.479087 77.150214
44
    34589.479087 73.680148
45
    34589.479087 73.475277
46
    34589.479087 73.909794
47
    34589.479087 73.045086
48
    34589.479087 67.878631
49
    34589.479087 67.606169
50
    34589.479087 74.562340
51
    34589.479087 73.413201
52
    34589.479087 70.489645
53
    34589.479087 73.019584
54
    34589.479087 73.273029
55
    34589.479087 72.574982
    34589.479087 73.505126
56
57
    34589.479087 73.728137
    34589.479087 73.460234
58
```

with the most optimal solution:
graph_structure Distance round

0 34589.479087 67.606169 34589.0

with an acceptance percentage of 0.008894225424143375%