

# approximate\_bayesian\_computation

## Parameters

cm\_name: abc\_30  
dataframe\_in: data\_missing\_30  
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: 1  
report\_parameters: {}  
running\_time: 191329.83560609818  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	16767.361382	14.072480
1	16767.361382	14.074526
2	16767.361382	14.332750
3	0.000000	15.565735
4	0.000000	16.378853
...	...	...
25195	0.000029	16.166099
25196	0.000029	16.150560
25197	0.000029	16.013333
25198	0.000029	16.464292
25199	0.000029	15.428929

[25200 rows x 2 columns]

with the most optimal solution:

graph\_structure Distance round

0 15988.217867 13.669093 15988.0

with an acceptance percentage of 21.684121584061547%