

# approximate\_bayesian\_computation

## Parameters

cm\_name: abc\_90\_s1  
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: 1  
report\_parameters: {}  
running\_time: 191165.67591667175  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

	graph_structure	Distance
0	16767.361382	14.577132
1	16767.361382	14.689460
2	16767.361382	14.979127
3	0.000000	16.154346
4	0.000000	16.986197
...	...	...
25281	0.000000	17.190468
25282	0.000000	15.813743
25283	0.000000	16.327580
25284	0.000000	16.058616
25285	0.000000	16.262348

[25286 rows x 2 columns]

with the most optimal solution:

	graph_structure	Distance	round
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0	15988.217867	14.419362	15988.0
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with an acceptance percentage of 21.566273097191647%