

# approximate\_bayesian\_computation

## Parameters

cm\_name: abc\_90  
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:  
        - Manufacturing\_Time  
    epsilons:  
        - 1  
    n\_chains: 3  
    n\_draws: 20000  
    n\_iterations: 100  
    nfe: 15000  
    objectives:  
        - Manufacturer  
        - Export\_Port  
        - Transit\_Port  
        - Import\_Port  
        - Wholesales\_Distributor  
        - Retailer\_Amsterdam  
        - Retailer\_Utrecht  
        - Retailer\_Venlo  
    population\_size: 100  
    ranges\_variables:  
        - - 1  
        - 10  
    seed: 35  
report\_parameters: {}  
running\_time: 239943.2206223011  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	5.122495	18.673627
1	2.156374	9.832171
2	2.156374	9.832171
3	2.156374	9.832171
4	2.156374	9.832171
...	...	...
4365	2.156397	10.848938
4366	2.156397	10.848938
4367	2.156397	10.848938
4368	2.156397	10.848938

4369            2.156398  9.204387

[4370 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.163914	7.573303
1	2.163915	7.573303
2	2.163915	7.573303
3	2.163915	7.573303

with an acceptance percentage of 8.081970219932304%