

# 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: 20  
report\_parameters: {}  
running\_time: 254641.69607043266  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	6.293177	19.437110
1	6.293177	19.437110
2	6.293177	19.437110
3	6.293177	19.437110
4	6.293177	19.437110
...	...	...
6257	1.862132	10.545614
6258	1.862132	10.545614
6259	1.862132	10.545614
6260	1.862132	10.545614

6261            1.862133 10.545614

[6262 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.327863	10.508865
1	2.327863	10.508865
2	2.327863	10.508865
3	2.327863	10.508865

with an acceptance percentage of 10.438030447034498%