

# approximate\_bayesian\_computation

## Parameters

cm\_name: abc\_10  
dataframe\_in: data\_missing\_10  
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: 5  
report\_parameters: {}  
running\_time: 440101.1344997883  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.726671	10.863274
1	2.997939	9.660009
2	1.898120	11.149995
3	1.898120	11.149995
4	1.898120	11.149995
...	...	...
17979	2.738319	7.068737
17980	2.738319	7.068737
17981	2.738319	7.068737

17982	2.738319	7.068737
17983	2.738319	7.068737

[17984 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.738333	6.902572
1	2.738333	6.902572
2	2.738333	6.902572
3	2.738333	6.902572
4	2.738333	6.902572
..	...	...
655	2.738332	6.902572
656	2.738331	6.902572
657	2.738330	6.902572
658	2.738330	6.902572
659	2.738329	6.902572

[660 rows x 2 columns]

with an acceptance percentage of 30.01183866073066%