

approximate_bayesian_computation

Parameters

cm_name: abc_75
dataframe_in: data_missing_75
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: 256590.66049170494
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	3.450848	17.457103
1	3.450848	17.457103
2	3.450848	17.457103
3	3.450848	17.457103
4	3.450848	17.457103
..
92	2.817295	12.755872
93	2.817295	12.755872
94	2.817295	12.755872
95	2.817295	12.755872

96 3.113987 13.717277

[97 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.647641	12.125683
1	2.647641	12.125683
2	2.647641	12.125683
3	2.647641	12.125683
4	2.647641	12.125683
5	2.647641	12.125683
6	2.647641	12.125683
7	2.647641	12.125683
8	2.647641	12.125683
9	2.647641	12.125683
10	2.647641	12.125683
11	2.647641	12.125683
12	2.647641	12.125683
13	2.647641	12.125683
14	2.647641	12.125683
15	2.647641	12.125683
16	2.647641	12.125683
17	2.647641	12.125683
18	2.647641	12.125683
19	2.647641	12.125683

with an acceptance percentage of 0.16007203241458656%