

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: 35
report_parameters: {}
running_time: 231837.28987193108
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	8.170457	24.514535
1	7.990758	23.128260
2	5.024638	18.629773
3	2.058517	13.888715
4	2.058517	13.888715
...
3265	2.346832	10.978606
3266	2.346832	10.978606
3267	2.346832	10.978606
3268	2.346832	10.978606

3269 2.351605 11.337496

[3270 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.346832	10.978606
1	2.346832	10.978606
2	2.346832	10.978606
3	2.346832	10.978606
4	2.346832	10.978606
...
1965	2.346832	10.978606
1966	2.346832	10.978606
1967	2.346832	10.978606
1968	2.346832	10.978606
1969	2.346832	10.978606

[1970 rows x 2 columns]

with an acceptance percentage of 6.271155353242293%