

approximate_bayesian_computation

Parameters

cm_name: abc_25
dataframe_in: data_missing_25
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: 30
report_parameters: {}
running_time: 422145.65921378136
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	2.226109	7.994047
1	2.226109	7.994047
2	2.226109	7.994047
3	2.226109	7.994047
4	2.226109	7.994047
...
16522	2.397132	6.667321
16523	2.397132	6.667321
16524	2.397132	6.667321

16525	2.397132	6.667321
16526	2.397132	6.667321

[16527 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.397133	6.667321
1	2.397133	6.667321
2	2.397133	6.667321
3	2.397133	6.667321
4	2.397133	6.667321
..
909	2.397132	6.667321
910	2.397132	6.667321
911	2.397132	6.667321
912	2.397132	6.667321
913	2.397132	6.667321

[914 rows x 2 columns]

with an acceptance percentage of 27.73414703283144%