

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: 35
report_parameters: {}
running_time: 255499.5835134983
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	8.170457	21.061524
1	7.990758	19.547006
2	5.024638	17.453019
3	2.058517	8.544054
4	2.058517	8.544054
...
9536	2.346832	5.310269
9537	2.346832	5.310269
9538	2.346832	5.310269
9539	2.346832	5.310269

9540 2.256717 6.252713

[9541 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.346832	5.310269
1	2.346832	5.310269
2	2.346832	5.310269
3	2.346832	5.310269
4	2.346832	5.310269
..
753	2.346832	5.310269
754	2.346832	5.310269
755	2.346832	5.310269
756	2.346832	5.310269
757	2.346832	5.310269

[758 rows x 2 columns]

with an acceptance percentage of 16.053890917579576%