

approximate_bayesian_computation

Parameters

cm_name: abc_50
dataframe_in: data_missing_50
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: 243972.06167721748
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	6.293177	16.047543
1	1.517890	14.755933
2	1.517890	14.755933
3	1.517890	14.755933
4	1.517890	14.755933
...
7902	2.994732	8.883785
7903	2.994732	8.883785
7904	2.994732	8.883785
7905	2.994732	8.883785

7906 3.198466 10.048670

[7907 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.571997	7.171605
1	2.571997	7.171605
2	2.571997	7.171605
3	2.571997	7.171605
4	2.571997	7.171605
...
3235	2.571996	7.171605
3236	2.571996	7.171605
3237	2.571996	7.171605
3238	2.571996	7.171605
3239	2.571996	7.171605

[3240 rows x 2 columns]

with an acceptance percentage of 13.180931419138611%