

approximate_bayesian_computation

Parameters

cm_name: abc_90
dataframe_in: data_missing_90
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: 15
report_parameters: {}
running_time: 420911.064068079
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.587817	15.169491
1	2.583616	10.968097
2	3.579415	11.459173
3	3.579415	11.459173
4	3.579415	11.459173
...
1109	3.579414	11.459169
1110	3.579414	11.459169
1111	3.579414	11.459169

1112	3.579414	11.459169
1113	3.579414	11.459169

[1114 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.207126	8.026547
1	2.207126	8.026547
2	2.207126	8.026547
3	2.207126	8.026547
4	2.207126	8.026547
..
92	2.207126	8.026547
93	2.207126	8.026547
94	2.207126	8.026547
95	2.207126	8.026547
96	2.207126	8.026547

[97 rows x 2 columns]

with an acceptance percentage of 1.9008553849232155%