

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: 15
report_parameters: {}
running_time: 436644.88657045364
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	2.207126	5.261984
1	2.207126	5.261984
2	2.207126	5.261984
3	2.207126	5.261984
4	2.207126	5.261984
...
16013	2.207126	5.261987
16014	2.207126	5.261987
16015	1.587817	15.063611

16016	1.000000	14.060348
16017	8.639359	18.641108

[16018 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.207126	5.261984
1	2.207126	5.261984
2	2.207126	5.261984
3	2.207126	5.261984
4	2.207126	5.261984
...
8279	2.207126	5.261984
8280	2.207126	5.261984
8281	2.207126	5.261984
8282	2.207126	5.261984
8283	2.207126	5.261984

[8284 rows x 2 columns]

with an acceptance percentage of 26.69034398812799%