

approximate_bayesian_computation

Parameters

cm_name: abc_75
dataframe_in: data_missing_75
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: 431427.1736238003
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	3.349760	23.423298
1	1.177835	23.325858
2	1.177835	23.325858
3	1.177835	23.325858
4	1.177835	23.325858
...
12570	2.243201	19.981754
12571	2.243201	19.981754
12572	2.243201	19.981754

12573	2.243201	19.981754
12574	2.243201	19.981754

[12575 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	3.291415	15.890468
1	3.291415	15.890468
2	3.291415	15.890468
3	3.291415	15.890468
4	3.291415	15.890468
...
3993	3.291414	15.890468
3994	3.291414	15.890468
3995	3.291414	15.890468
3996	3.291414	15.890468
3997	3.291414	15.890468

[3998 rows x 2 columns]

with an acceptance percentage of 20.98444299934971%