

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: 40
report_parameters: {}
running_time: 241789.29946494102
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	7.444785	22.331951
1	3.104000	10.390146
2	3.104000	10.390146
3	3.104000	10.390146
4	3.104000	10.390146
...
5882	3.104004	9.258599
5883	3.104004	9.258599
5884	3.104005	9.258599
5885	3.104005	9.258599

5886 4.669183 16.094931

[5887 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	3.104001	9.258599
1	3.104002	9.258599
2	3.104002	9.258599
3	3.104002	9.258599
4	3.104002	9.258599
5	3.104003	9.258599
6	3.104003	9.258599
7	3.104003	9.258599
8	3.104004	9.258599
9	3.104004	9.258599
10	3.104004	9.258599
11	3.104005	9.258599
12	3.104005	9.258599

with an acceptance percentage of 9.812749070415022%