

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: 25
report_parameters: {}
running_time: 236604.64703273773
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

| | Manufacturing_Time | Distance |
|------|--------------------|-----------|
| 0 | 6.088734 | 18.339237 |
| 1 | 3.346351 | 9.171053 |
| 2 | 3.346351 | 9.171053 |
| 3 | 3.346351 | 9.171053 |
| 4 | 3.346351 | 9.171053 |
| ... | ... | ... |
| 1873 | 2.986727 | 8.197844 |
| 1874 | 2.986728 | 8.197844 |
| 1875 | 2.986729 | 8.197846 |
| 1876 | 2.986730 | 8.197846 |

1877 2.986731 7.574828

[1878 rows x 2 columns]

with the most optimal solution:

 Manufacturing_Time Distance

0 2.986731 7.574828

with an acceptance percentage of 3.524919547129541%