

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: 25
report_parameters: {}
running_time: 254030.39111804962
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.878908	17.852806
1	1.878908	17.852806
2	1.878908	17.852806
3	1.878908	17.852806
4	1.878908	17.852806
...
9335	1.878908	17.852806
9336	8.831117	45.210959
9337	6.088734	32.407915
9338	3.346351	22.975227

9339 1.000000 22.773762

[9340 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	1.878908	17.852806
1	1.878908	17.852806
2	1.878908	17.852806
3	1.878908	17.852806
4	1.878908	17.852806
...
9331	1.878908	17.852806
9332	1.878908	17.852806
9333	1.878908	17.852806
9334	1.878908	17.852806
9335	1.878908	17.852806

[9336 rows x 2 columns]

with an acceptance percentage of 15.573674820335818%