

approximate_bayesian_computation

Parameters

cm_name: abc_50
dataframe_in: data_missing_50
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: 5
report_parameters: {}
running_time: 441853.38772153854
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.726671	28.126872
1	2.997939	29.886268
2	1.898120	23.241406
3	1.898120	23.241406
4	1.898120	23.241406
...
17652	1.898129	23.724239
17653	1.898131	23.776956
17654	1.898132	23.776956

17655	1.898133	23.240786
17656	1.898135	25.623522

[17657 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	1.898107	23.095985
1	1.898107	23.095985
2	1.898108	23.095985

with an acceptance percentage of 30.296966968469146%