

approximate_bayesian_computation

Parameters

cm_name: abc_0
dataframe_in: data_0
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
 convergence_progress: true
 decision_variables:
 - Manufacturing_Time
 n_chains: 3
 n_draws: 15000
 objectives:
 - Manufacturer
 - Export_Port
 - Transit_Port
 - Import_Port
 - Wholesales_Distributor
 - Retailer_Amsterdam
 - Retailer_Utrecht
 - Retailer_Venlo
 ranges_variables:
 - - 1
 - 10
 seed: 25
report_parameters: {}
running_time: 78989.64506411552
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.878908	7.796555
1	1.878908	7.796555
2	1.878908	7.796555
3	1.878908	7.796555
4	1.878908	7.796555
...
2116	3.346348	9.571632
2117	3.346348	9.571632
2118	3.346348	9.571632
2119	2.754488	7.609389
2120	2.162625	5.664255

[2121 rows x 2 columns]

with the most optimal solution:

Manufacturing_Time Distance

0 2.162625 5.664255

1 2.162625 5.664255

with an acceptance percentage of 7.411133467471497%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration	Solution Params
abc_0	approximate_bayesian_computation	0.96	manhattan_metrics	data_0	78989.645 sec	{'Manufacturing_Time': 2.1626246661248834}