

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: 5
report_parameters: {}
running_time: 82171.09604692459
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.726671	10.553592
1	1.726668	10.553592
2	1.726727	8.302232
3	2.997939	9.938220
4	1.898120	11.142209
..
902	2.738278	7.144638
903	2.738367	8.111579
904	2.738422	7.839701
905	2.738242	8.302398
906	2.738062	7.252815

[907 rows x 2 columns]

with the most optimal solution:

Manufacturing_Time Distance

0 2.738278 7.144638

1 2.738278 7.144638

with an acceptance percentage of 3.060585736642075%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration	Solution Params
abc_0	approximate_bayesian_computation	0.97	manhattan_metrics	data_0	82171.096 sec	{'Manufacturing_Time': 2.738277982708334}