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: 15
report_parameters: {}
running_time: 82800.47011327744
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	1.587817	14.768416
1	1.000000	13.772067
2	2.940960	8.492161
3	2.940960	8.492161
4	2.940960	8.492161
...	...	...
2495	2.207126	5.533317
2496	2.207126	5.533317
2497	2.207126	5.533317
2498	2.207126	5.533317
2499	2.207126	5.533317

[2500 rows x 2 columns]

with the most optimal solution:

	Manufacturing_Time	Distance
0	2.207126	5.533317
1	2.207126	5.533317
2	2.207126	5.533317
3	2.207126	5.533317
4	2.207126	5.533317
...	...	...
1537	2.207126	5.533317
1538	2.207126	5.533317
1539	2.207126	5.533317
1540	2.207126	5.533317
1541	2.207126	5.533317

[1542 rows x 2 columns]
with an acceptance percentage of 19.988821819807736%

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration	Solution Params
abc_0	approximate_bayesian_computation	0.97	manhattan_metrics	data_0	82800.470 sec	{'Manufacturing_Time': 2.207126463672464}