

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%