

# bayesian\_optimization

## Parameters

cm\_name: bo\_70  
dataframe\_in: data\_missing\_70  
description: Bayesian optimization method for optimization of timeseries  
diff\_func\_name: manhattan\_metrics  
diff\_func\_parameters: {}  
model\_method: bayesian\_optimization  
name: bayesian\_optimization  
parameters:  
  decision\_variables:  
    keys:  
      - max\_keys  
  decision\_variables\_names:  
    - graph\_structure  
  exploration\_strategy: ei  
  ground\_truth\_topology:  
    keys:  
      - max\_keys  
  initial\_points: 100  
  n\_iterations: 3750  
  num\_pool: 5  
  seed: 16  
report\_parameters: {}  
running\_time: 223984.91687226295  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	min_distance	round
0	28174	12.595474	28174

# bayesian\_optimization

## Parameters

cm\_name: bo\_80  
dataframe\_in: data\_missing\_80  
description: Bayesian optimization method for optimization of timeseries  
diff\_func\_name: manhattan\_metrics  
diff\_func\_parameters: {}  
model\_method: bayesian\_optimization  
name: bayesian\_optimization  
parameters:  
  decision\_variables:  
    keys:  
      - max\_keys  
  decision\_variables\_names:  
    - graph\_structure  
  exploration\_strategy: ei  
  ground\_truth\_topology:  
    keys:  
      - max\_keys  
  initial\_points: 100  
  n\_iterations: 3750  
  num\_pool: 5  
  seed: 16  
report\_parameters: {}  
running\_time: 264158.6226696968  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	min_distance	round
0	36337	18.899521	36337

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
bo_80	bayesian_optimization	0.98	manhattan_metrics	data_missing_80	264158.623 sec
bo_70	bayesian_optimization	0.97	manhattan_metrics	data_missing_70	223984.917 sec