

# bayesian\_optimization

## Parameters

cm\_name: bo\_10  
dataframe\_in: data\_missing\_10  
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: 1  
report\_parameters: {}  
running\_time: 215219.07482028008  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	min_distance	round
0	34681	4.518129	34681

# bayesian\_optimization

## Parameters

cm\_name: bo\_20  
dataframe\_in: data\_missing\_20  
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: 1  
report\_parameters: {}  
running\_time: 217513.59914803505  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	min_distance	round
0	12903	4.027699	12903

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
bo_20	bayesian_optimization	0.96	manhattan_metrics	data_missing_20	217513.599 sec
bo_10	bayesian_optimization	0.98	manhattan_metrics	data_missing_10	215219.075 sec