

# bayesian\_optimization

## Parameters

cm\_name: bo\_30  
dataframe\_in: data\_missing\_30  
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: 26  
report\_parameters: {}  
running\_time: 167804.33487987518  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	min_distance	round
0	25891	1.03079	25891

# bayesian\_optimization

## Parameters

cm\_name: bo\_40  
dataframe\_in: data\_missing\_40  
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: 26  
report\_parameters: {}  
running\_time: 193110.19825553894  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	min_distance	round
0	37489	1.587564	37489

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
bo_40	bayesian_optimization	0.98	manhattan_metrics	data_missing_40	193110.198 sec
bo_30	bayesian_optimization	0.97	manhattan_metrics	data_missing_30	167804.335 sec