# bayesian_optimization

## Parameters

cm_name: bo_90_s1
dataframe_in: data_missing_90
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: 214778.030680418
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

| | graph_structure | min_distance | round |
|---|---|---|---|
| 0 | 36337 | 36.043713 | 36337 |

# bayesian_optimization

## Parameters

cm_name: bo_90_s6
dataframe_in: data_missing_90
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: 6
report_parameters: {}
running_time: 195929.43552589417
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

| | graph_structure | min_distance | round |
|---|---|---|---|
| 0 | 16828 | 40.83596 | 16828 |

# Summary

| Model Name | Model Method | Score | Difference Function | Dataframe | Duration |
|---|---|---|---|---|---|
| bo_90_s6 | bayesian_optimization | 0.97 | manhattan_metrics | data_missing_90 | 195929.436 sec |
| bo_90_s1 | bayesian_optimization | 0.98 | manhattan_metrics | data_missing_90 | 214778.031 sec |