# 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: 1
report_parameters: {}
running_time: 195685.60139489174
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

| | graph_structure | min_distance | round |
|---|---|---|---|
| 0 | 38054 | 1.954442 | 38054 |

# 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: 1
report_parameters: {}
running_time: 195193.13012218475
type: calibrationmodel
version: 1.0.0

# Results

Summary CalibrationModel with most optimal solution:
   graph_structure  min_distance  round
0       39520     -0.0  39520

# Summary

| Model Name | Model Method | Score | Difference Function | Dataframe | Duration |
|---|---|---|---|---|---|
| bo_80 | bayesian_optimization | 1.0 | manhattan_metrics | data_missing_80 | 195193.130 sec |
| bo_70 | bayesian_optimization | 0.99 | manhattan_metrics | data_missing_70 | 195685.601 sec |