# bayesian_optimization

## Parameters

cm_name: bo_s26
dataframe_in: data_out
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: 356647.70759534836
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:
  graph_structure  min_distance  round
0           39368     88.311082  39368

# bayesian_optimization

## Parameters

cm_name: bo_s21
dataframe_in: data_out
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: 21
report_parameters: {}
running_time: 326315.50467038155
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:
  graph_structure  min_distance  round
0           37258     95.966541  37258

# Summary

| Model Name | Model Method | Score | Difference Function | Dataframe | Duration |
|---|---|---|---|---|---|
| bo_s26 | bayesian_optimization | 1.0 | manhattan_metrics | data_out | 356647.708 sec |
| bo_s21 | bayesian_optimization | 0.98 | manhattan_metrics | data_out | 326315.505 sec |