

# powell\_method

## Parameters

cm\_name: powell\_30\_s16  
dataframe\_in: data\_missing\_30  
description: Powell Method for optimization of timeseries with simulation  
diff\_func\_name: manhattan\_metrics  
diff\_func\_parameters: {}  
model\_method: powell\_method  
name: powell\_method  
parameters:  
  decision\_variables:  
    keys:  
      - max\_keys  
  decision\_variables\_names:  
    - graph\_structure  
  epsilons:  
    - 1  
  ground\_truth\_topology:  
    keys:  
      - max\_keys  
  initial\_points: 100  
  n\_draws: 20000  
  n\_iterations: 100  
  nfe: 1500  
  num\_pool: 1  
  population\_size: 100  
  seed: 16  
report\_parameters: {}  
running\_time: 3023.218106031418  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16656.326088	4.875948	16656.0

# powell\_method

## Parameters

cm\_name: powell\_30\_s11  
dataframe\_in: data\_missing\_30  
description: Powell Method for optimization of timeseries with simulation  
diff\_func\_name: manhattan\_metrics  
diff\_func\_parameters: {}  
model\_method: powell\_method  
name: powell\_method  
parameters:  
  decision\_variables:  
    keys:  
      - max\_keys  
  decision\_variables\_names:  
    - graph\_structure  
  epsilons:  
    - 1  
  ground\_truth\_topology:  
    keys:  
      - max\_keys  
  initial\_points: 100  
  n\_draws: 20000  
  n\_iterations: 100  
  nfe: 1500  
  num\_pool: 1  
  population\_size: 100  
  seed: 11  
report\_parameters: {}  
running\_time: 2594.4843904972076  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	14609.739058	5.475649	14610.0

# powell\_method

## Parameters

cm\_name: powell\_30\_s6  
dataframe\_in: data\_missing\_30  
description: Powell Method for optimization of timeseries with simulation  
diff\_func\_name: manhattan\_metrics  
diff\_func\_parameters: {}  
model\_method: powell\_method  
name: powell\_method  
parameters:  
  decision\_variables:  
    keys:  
      - max\_keys  
  decision\_variables\_names:  
    - graph\_structure  
  epsilons:  
    - 1  
  ground\_truth\_topology:  
    keys:  
      - max\_keys  
  initial\_points: 100  
  n\_draws: 20000  
  n\_iterations: 100  
  nfe: 1500  
  num\_pool: 1  
  population\_size: 100  
  seed: 6  
report\_parameters: {}  
running\_time: 1996.5100367069244  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.568732	7.13125	15279.0

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_30_s6	powell_method	0.96	manhattan_metrics	data_missing_30	1996.510 sec
powell_30_s16	powell_method	0.97	manhattan_metrics	data_missing_30	3023.218 sec
powell_30_s11	powell_method	0.96	manhattan_metrics	data_missing_30	2594.484 sec