

# powell\_method

## Parameters

cm\_name: powell\_40  
dataframe\_in: data\_missing\_40  
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: 21  
report\_parameters: {}  
running\_time: 3381.0707528591156  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15279.352023	7.586272	15279.0

# powell\_method

## Parameters

cm\_name: powell\_60  
dataframe\_in: data\_missing\_60  
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: 21  
report\_parameters: {}  
running\_time: 5815.054741382599  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.686313	14.688152	15279.0

# powell\_method

## Parameters

cm\_name: powell\_50  
dataframe\_in: data\_missing\_50  
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: 21  
report\_parameters: {}  
running\_time: 3227.640235185623  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15279.026245	9.822743	15279.0

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_60	powell_method	0.96	manhattan_metrics	data_missing_60	5815.055 sec
powell_50	powell_method	0.96	manhattan_metrics	data_missing_50	3227.640 sec
powell_40	powell_method	0.96	manhattan_metrics	data_missing_40	3381.071 sec