

# powell\_method

## Parameters

cm\_name: powell\_80  
dataframe\_in: data\_missing\_80  
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: 4497.048936843872  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15231.1434	39.343668	15231.0

# powell\_method

## Parameters

cm\_name: powell\_90  
dataframe\_in: data\_missing\_90  
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: 2157.272274494171  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.730688	68.025025	15279.0

# powell\_method

## Parameters

cm\_name: powell\_70  
dataframe\_in: data\_missing\_70  
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: 3696.6000621318817  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15059.856654	22.202739	15060.0

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_90	powell_method	0.96	manhattan_metrics	data_missing_90	2157.272 sec
powell_80	powell_method	0.96	manhattan_metrics	data_missing_80	4497.049 sec
powell_70	powell_method	0.96	manhattan_metrics	data_missing_70	3696.600 sec