

# 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: 26  
report\_parameters: {}  
running\_time: 7324.857905626297  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.685611	70.035948	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: 26  
report\_parameters: {}  
running\_time: 2330.268193244934  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.634455	20.069424	15279.0

# 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: 26  
report\_parameters: {}  
running\_time: 5579.656853914261  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15288.034364	38.872692	15288.0

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_90	powell_method	0.96	manhattan_metrics	data_missing_90	7324.858 sec
powell_80	powell_method	0.96	manhattan_metrics	data_missing_80	5579.657 sec
powell_70	powell_method	0.96	manhattan_metrics	data_missing_70	2330.268 sec