

# 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: 1  
report\_parameters: {}  
running\_time: 4480.711289405823  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	14927.265042	4.151411	14927.0

# 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: 1  
report\_parameters: {}  
running\_time: 3016.439350605011  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16655.855443	3.348444	16656.0

# 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: 1  
report\_parameters: {}  
running\_time: 2486.152268886566  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16241.180297	3.62499	16241.0

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_60	powell_method	0.97	manhattan_metrics	data_missing_60	2486.152 sec
powell_50	powell_method	0.96	manhattan_metrics	data_missing_50	4480.711 sec
powell_40	powell_method	0.97	manhattan_metrics	data_missing_40	3016.439 sec