

# powell\_method

## Parameters

cm\_name: powell\_20  
dataframe\_in: data\_missing\_20  
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: 4279.448308944702  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16656.496748	2.882864	16656.0

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## Parameters

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description: Powell Method for optimization of timeseries with simulation  
diff\_func\_name: manhattan\_metrics  
diff\_func\_parameters: {}  
model\_method: powell\_method  
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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: 3363.2795956134796  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	16655.622646	2.944619	16656.0

# powell\_method

## Parameters

cm\_name: powell\_30  
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: 1  
report\_parameters: {}  
running\_time: 1985.4305486679077  
type: calibrationmodel  
version: 1.0.0

## Results

Summary CalibrationModel with most optimal solution:

	graph_structure	Distance	round
0	15278.64045	4.569064	15279.0

# Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration
powell_30	powell_method	0.96	manhattan_metrics	data_missing_30	1985.431 sec
powell_20	powell_method	0.97	manhattan_metrics	data_missing_20	4279.448 sec
powell_10	powell_method	0.97	manhattan_metrics	data_missing_10	3363.280 sec