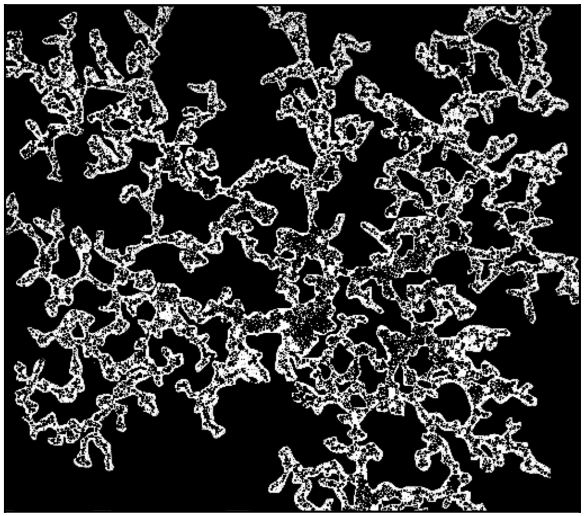
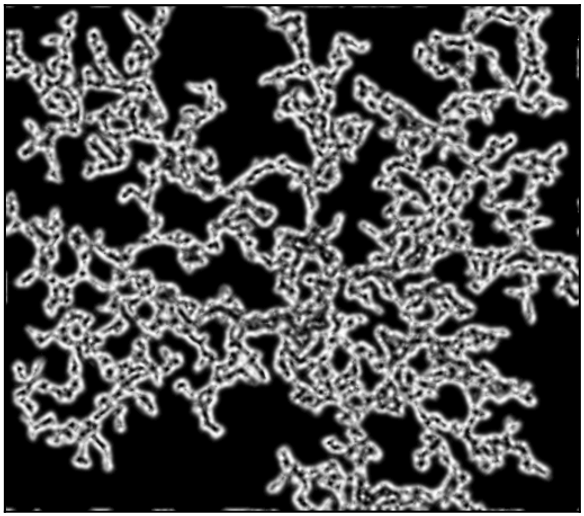
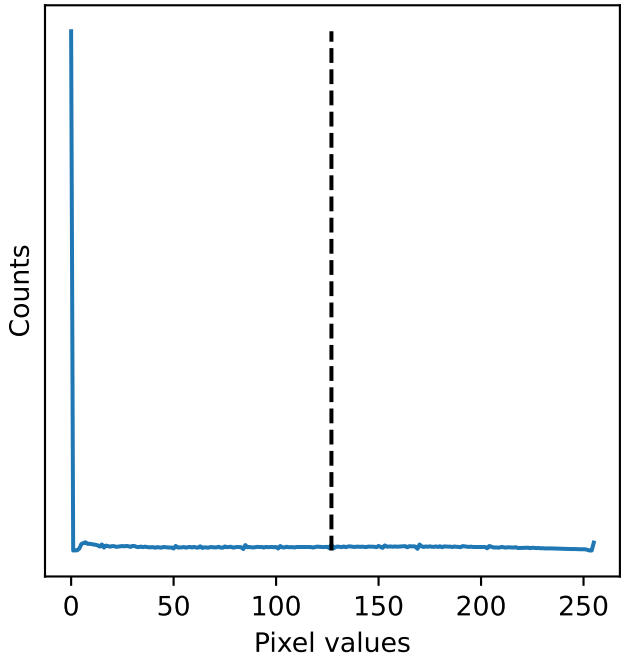
Original Image



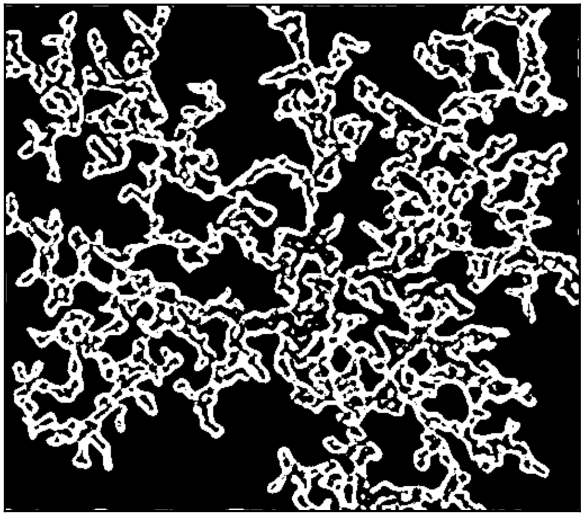
Processed Image



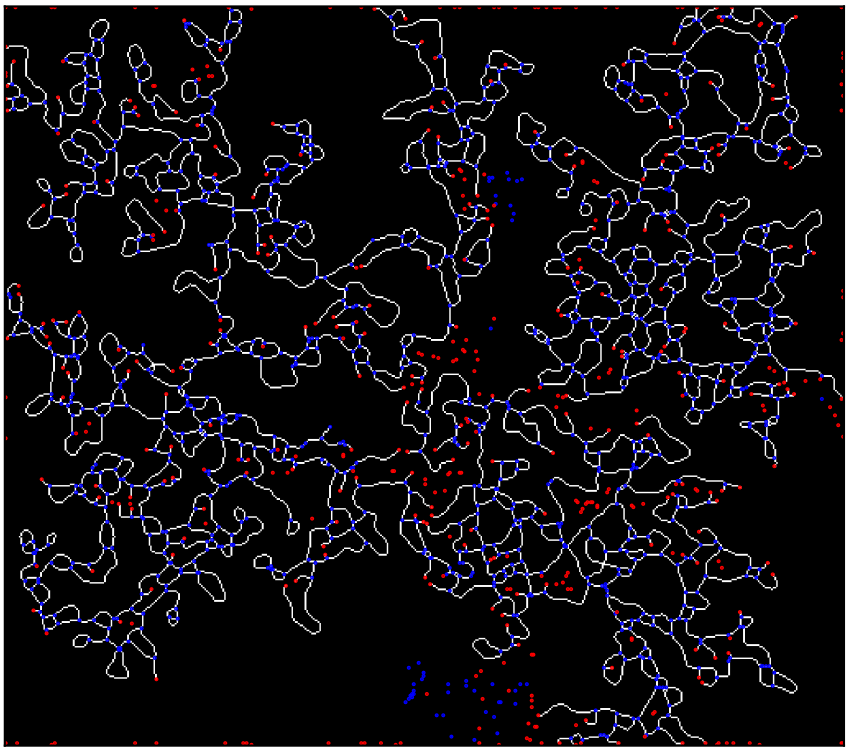
Histogram of Processed Image



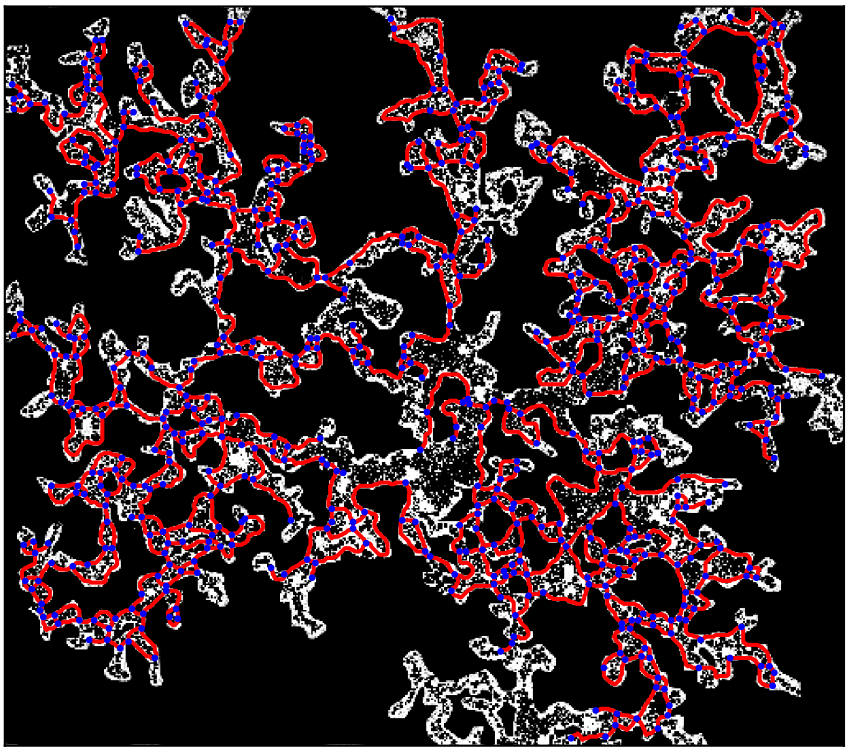
Binary Image



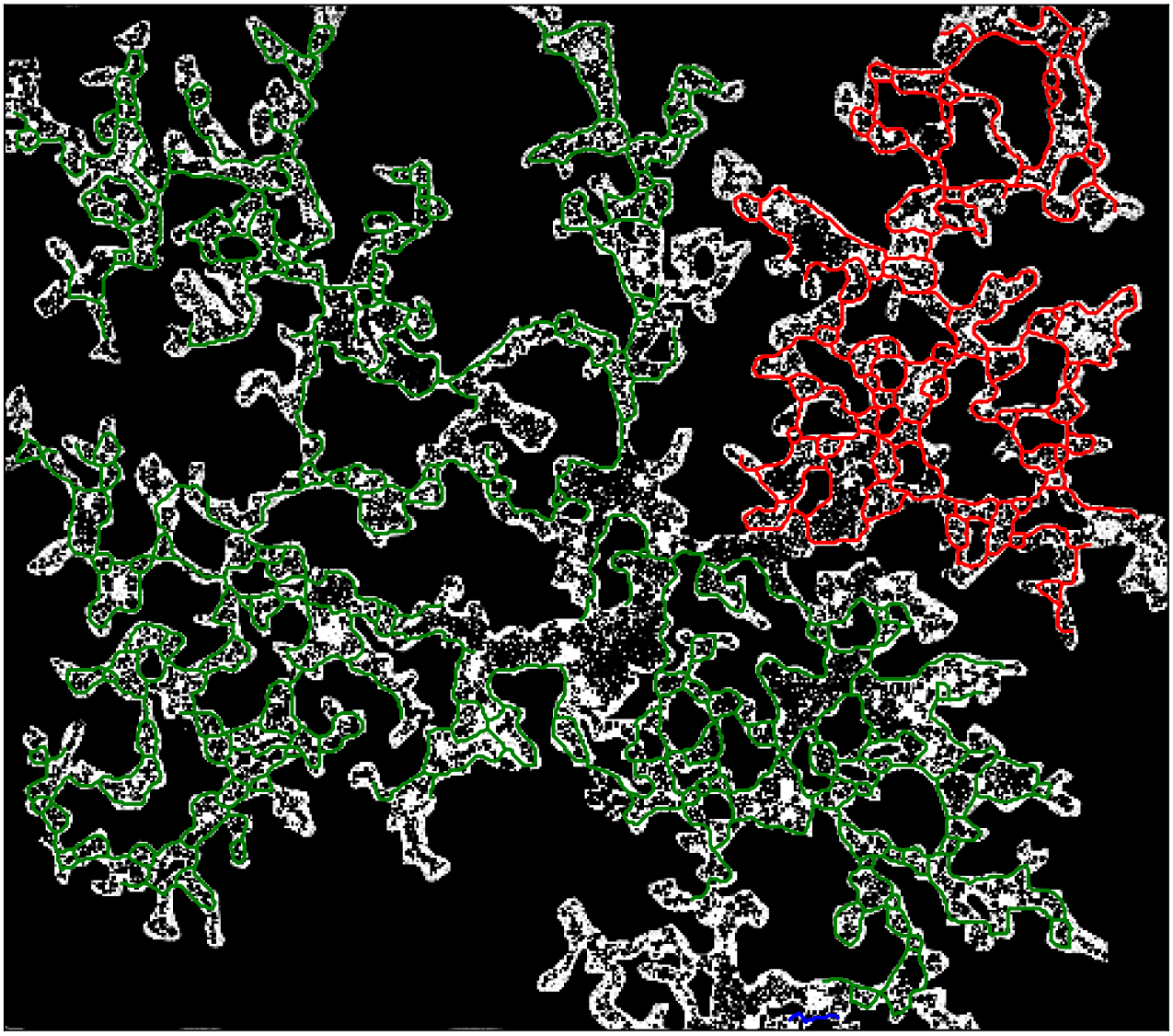
Skeletal Image



Final Graph



Sub Graphs

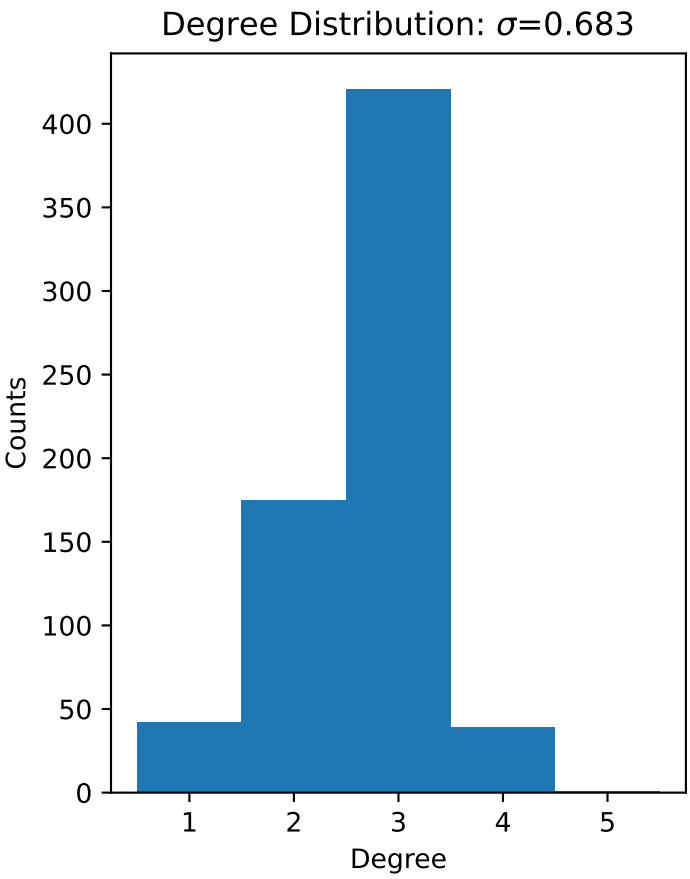


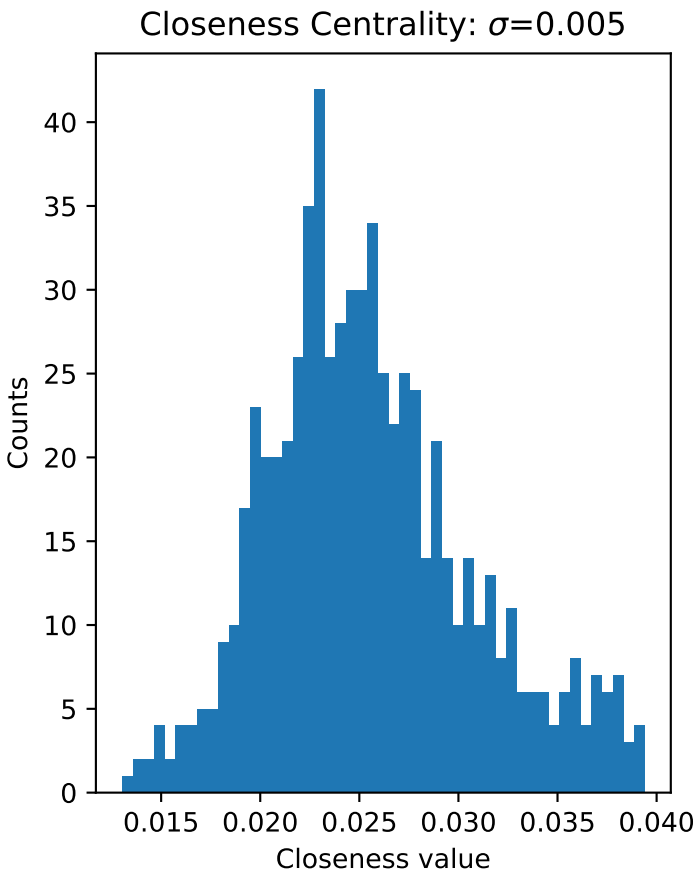
Unweighted GT parameters

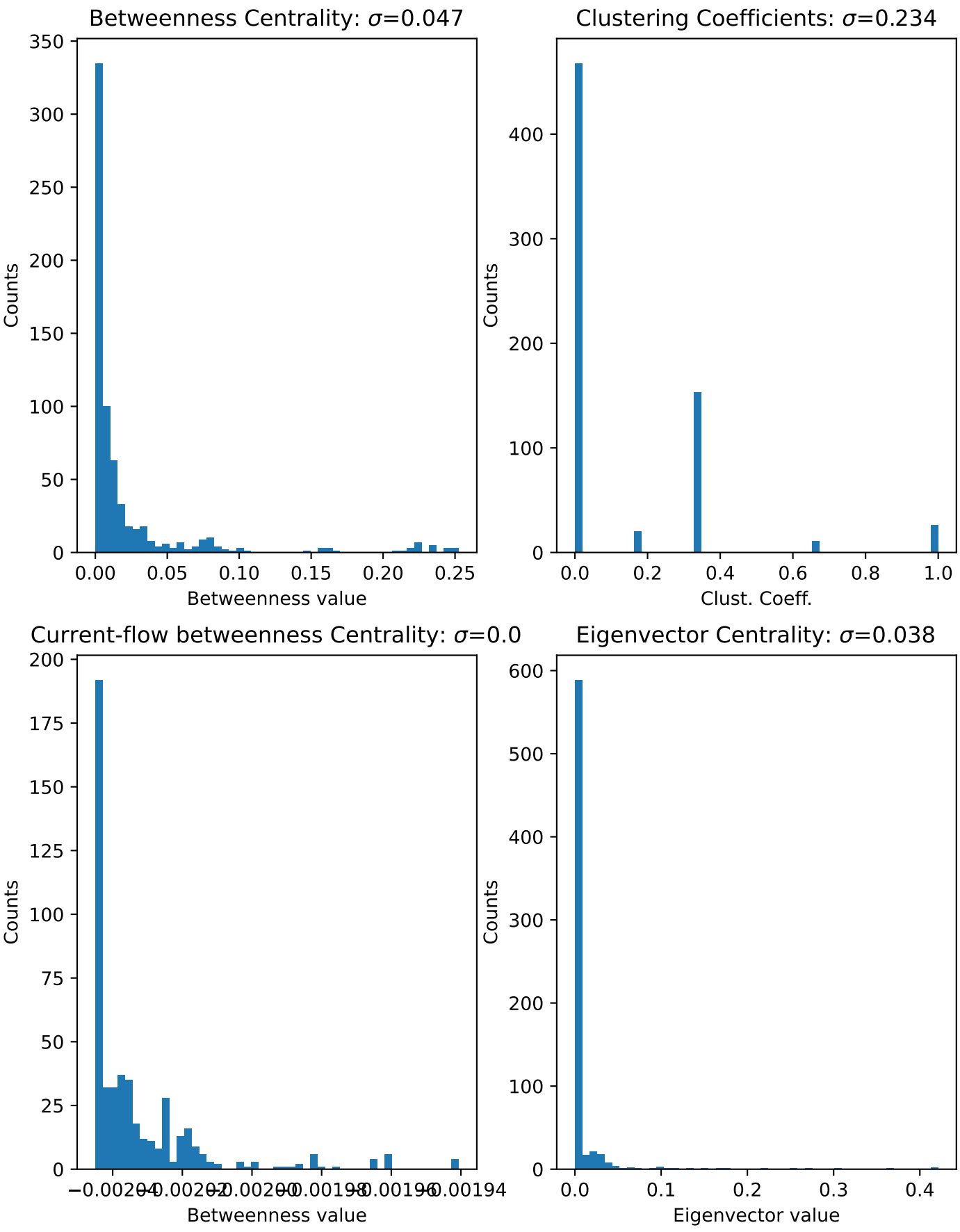
Number of nodes	678
Number of edges	908
Connectedness ratio	72.42%
Average degree	2.67847
Network diameter	NaN
Average nodal connectivity	NaN
Graph density	0.00396
Global efficiency	0.04231
Wiener Index	inf
Assortativity coefficient	0.09237
Average clustering coefficient	0.1293
Average betweenness centrality	0.02206
Average eigenvector centrality	0.00833
Average closeness centrality	0.02555
Subgraph Count	3
Large Subgraph Node Count	489
Large Subgraph Edge Count	633
Small Subgraph Node Count	2
Small Subgraph Edge Count	1
Graph Conductance (max)	0.016643772287391726
Graph Conductance (min)	6.92537889886372e-05
Average current-flow betweenness centrality	-0.00203

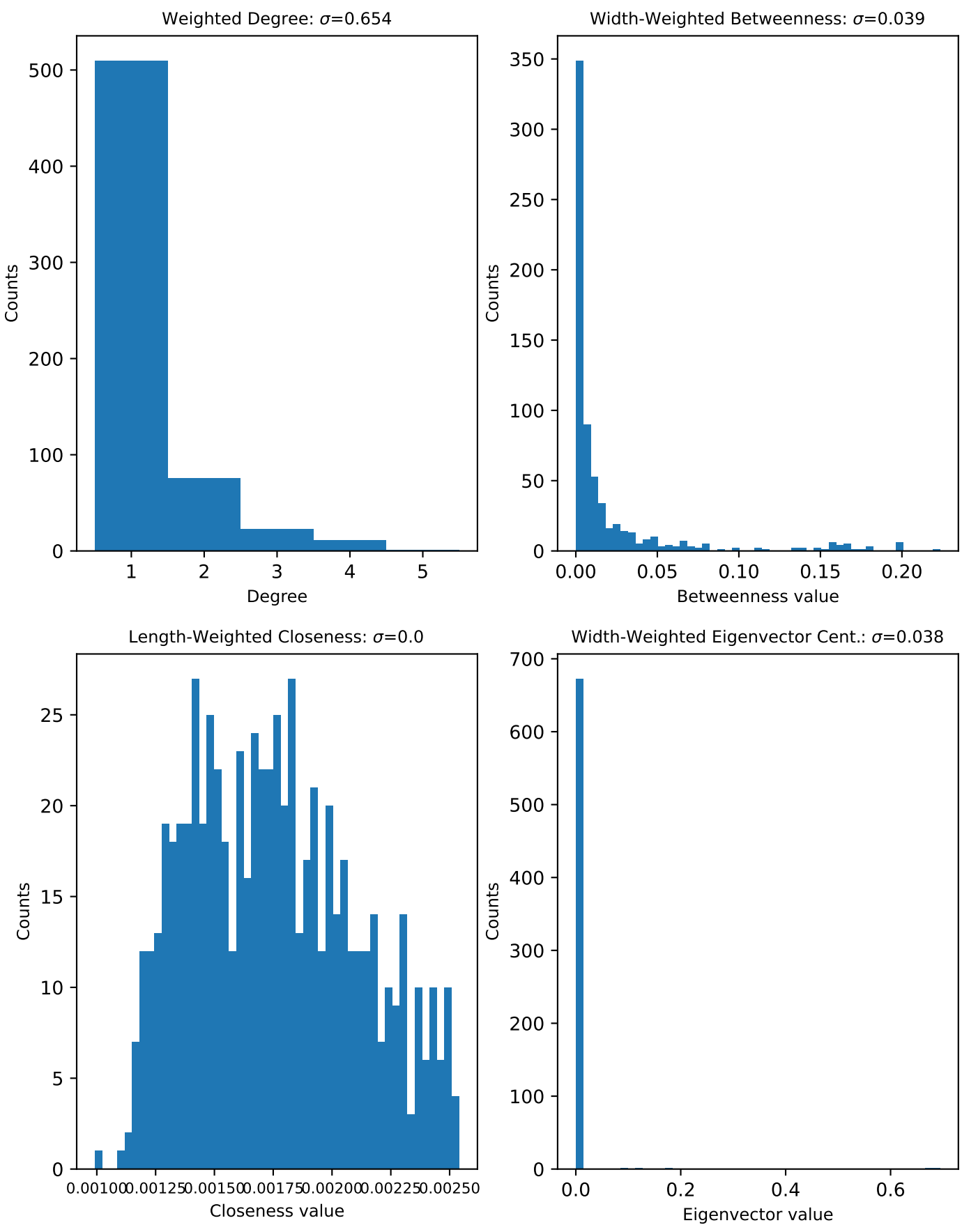
Weighted GT Parameters

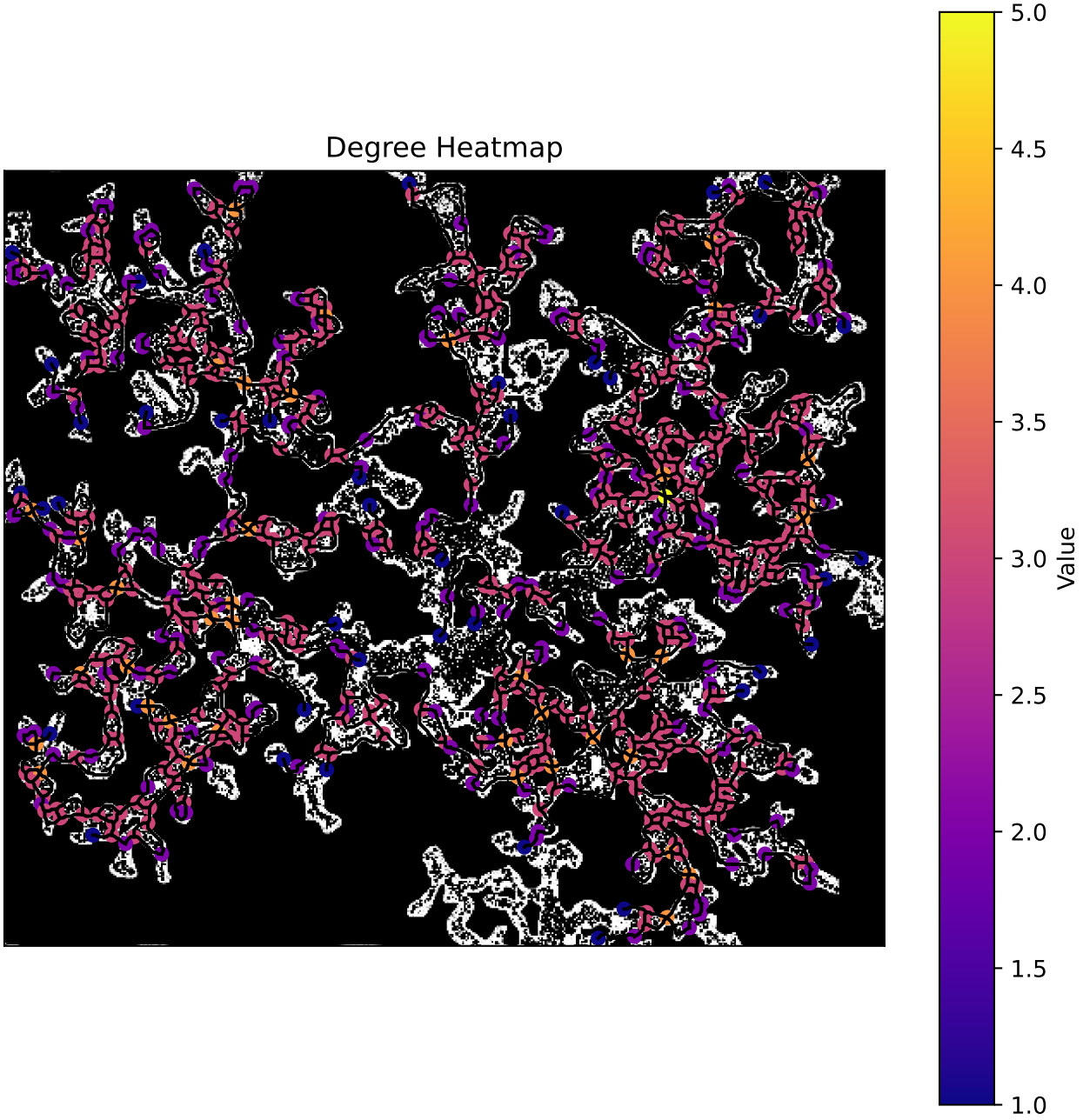
Weighted average degree	1.13204
Length-weighted Wiener Index	inf
Max flow between periphery	NaN
Weighted assortativity coefficient	0.29739
Width-weighted average betweenness centrality	0.01919
Length-weighted average closeness centrality	0.00175
Width-weighted average eigenvector centrality	0.00271
Weighted Subgraph Count	Weighted 3
Weighted Large Subgraph Node Count	Weighted 489
Weighted Large Subgraph Edge Count	Weighted 633
Weighted Small Subgraph Node Count	Weighted 2
Weighted Small Subgraph Edge Count	Weighted 1
Weighted Graph Conductance (max)	Weighted 0.016643772287391726
Weighted Graph Conductance (min)	Weighted 6.92537889886372e-05

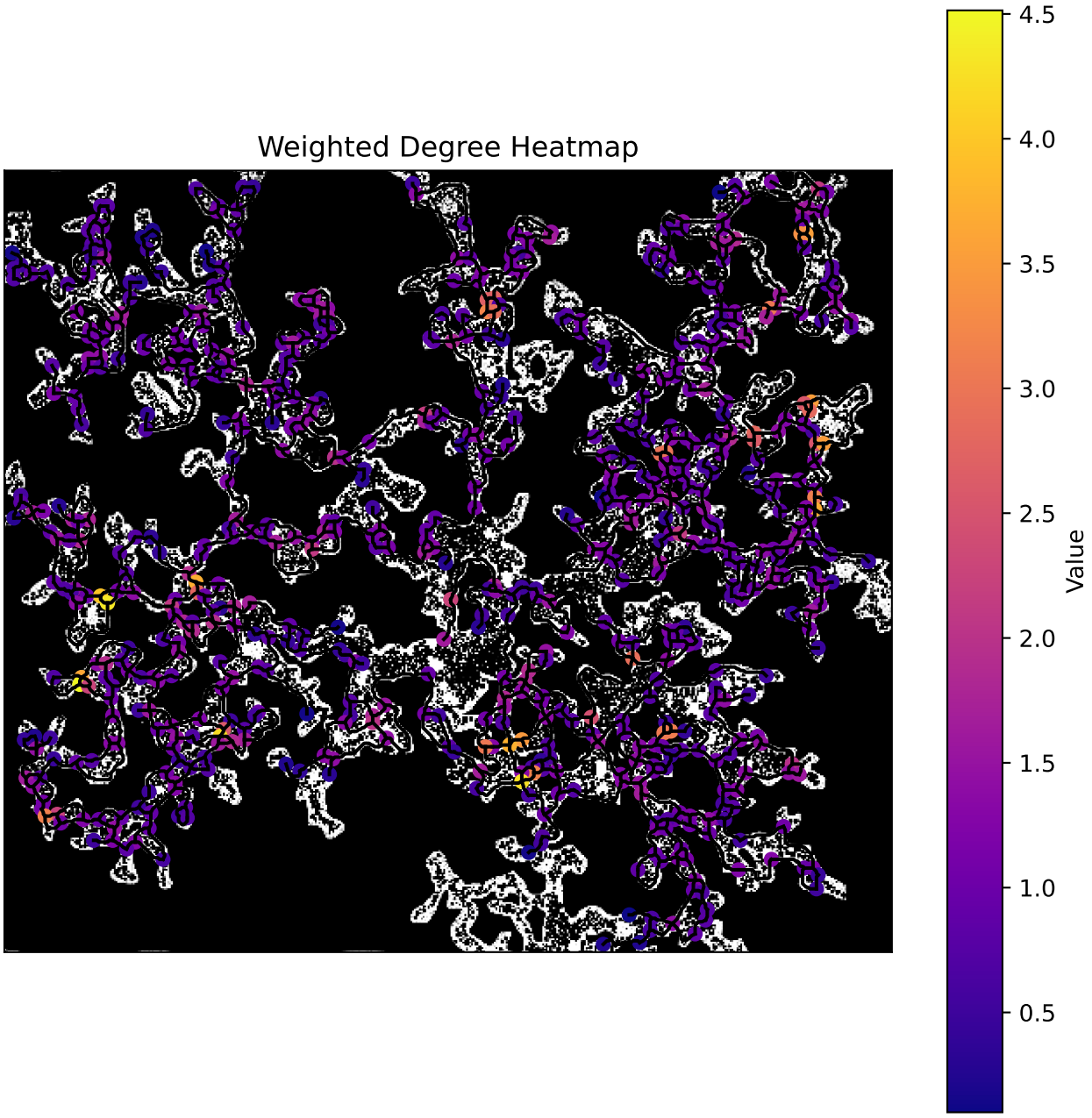

Degree Distribution: σ=0.683
Counts
Degree
0
50
100
150
200
250
300
350
400
1
2
3
4
5

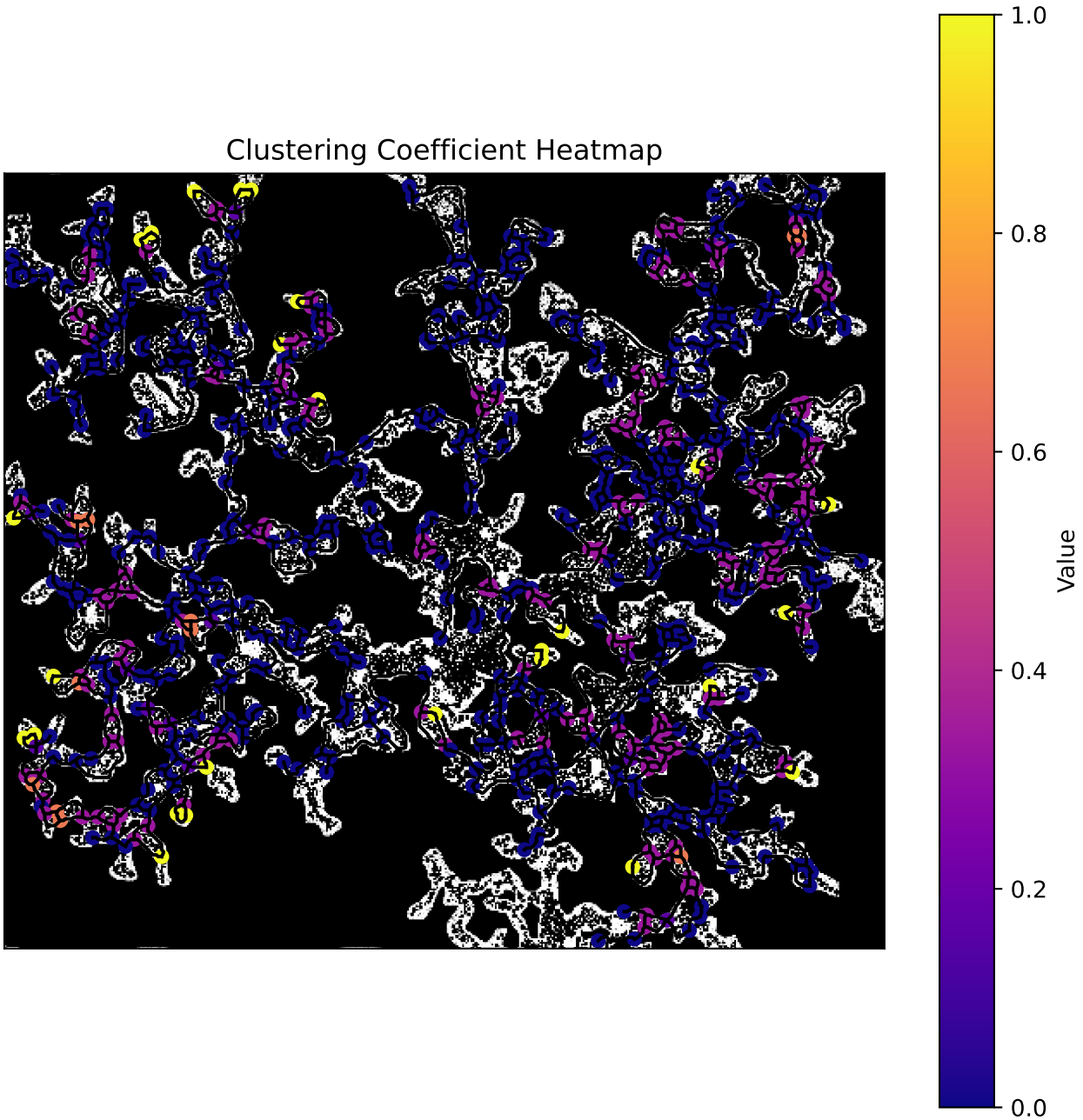

Closeness Centrality: σ=0.005
Counts
Closeness value
0
5
10
15
20
25
30
35
40
0.015
0.020
0.025
0.030
0.035
0.040

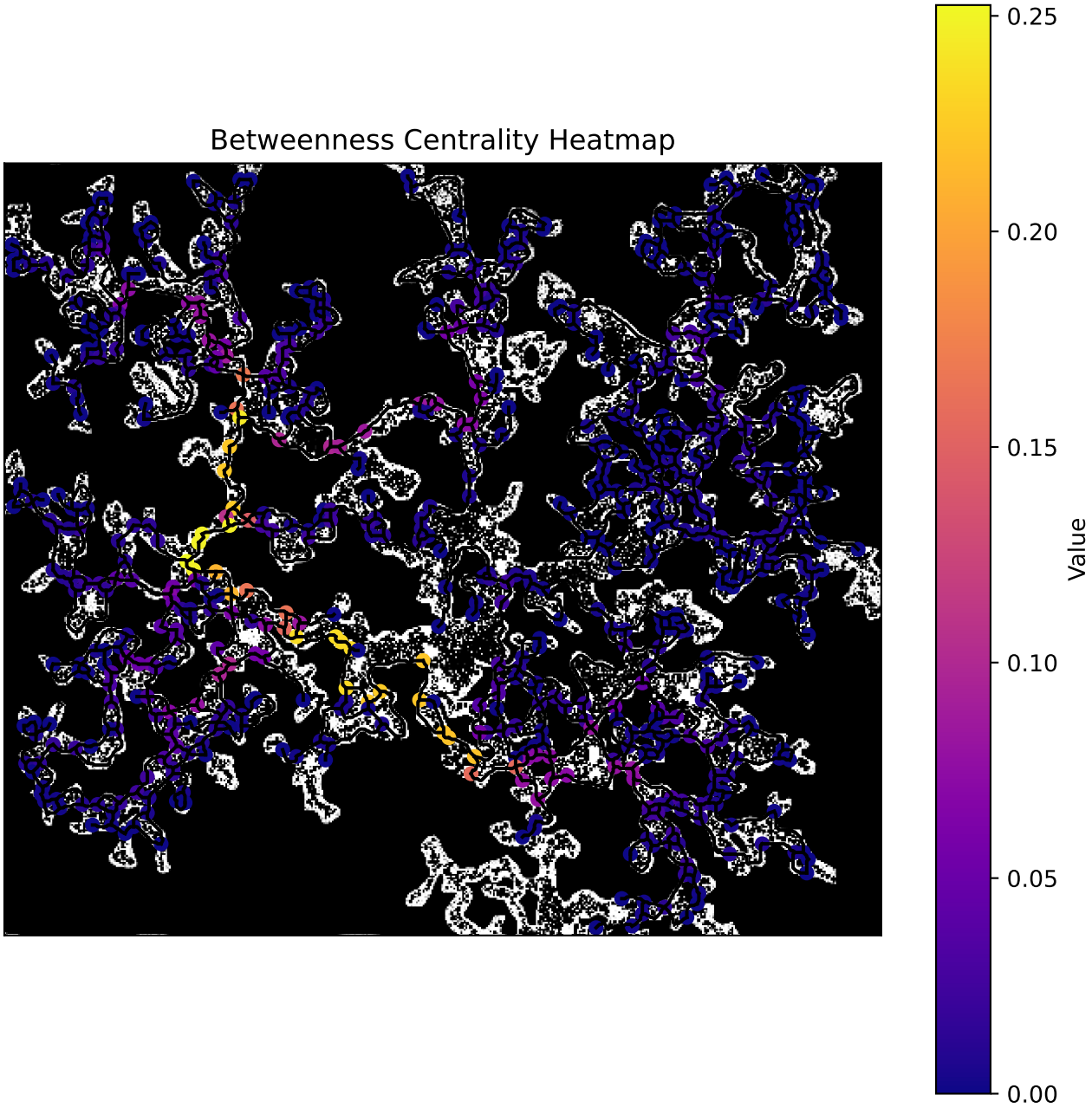

Betweenness Centrality: σ=0.047
Counts
Betweenness value
Clustering Coefficients: σ=0.234
Counts
Clust. Coeff.
Current-flow betweenness Centrality: σ=0.0
Counts
Betweenness value
Eigenvector Centrality: σ=0.038
Counts
Eigenvector value

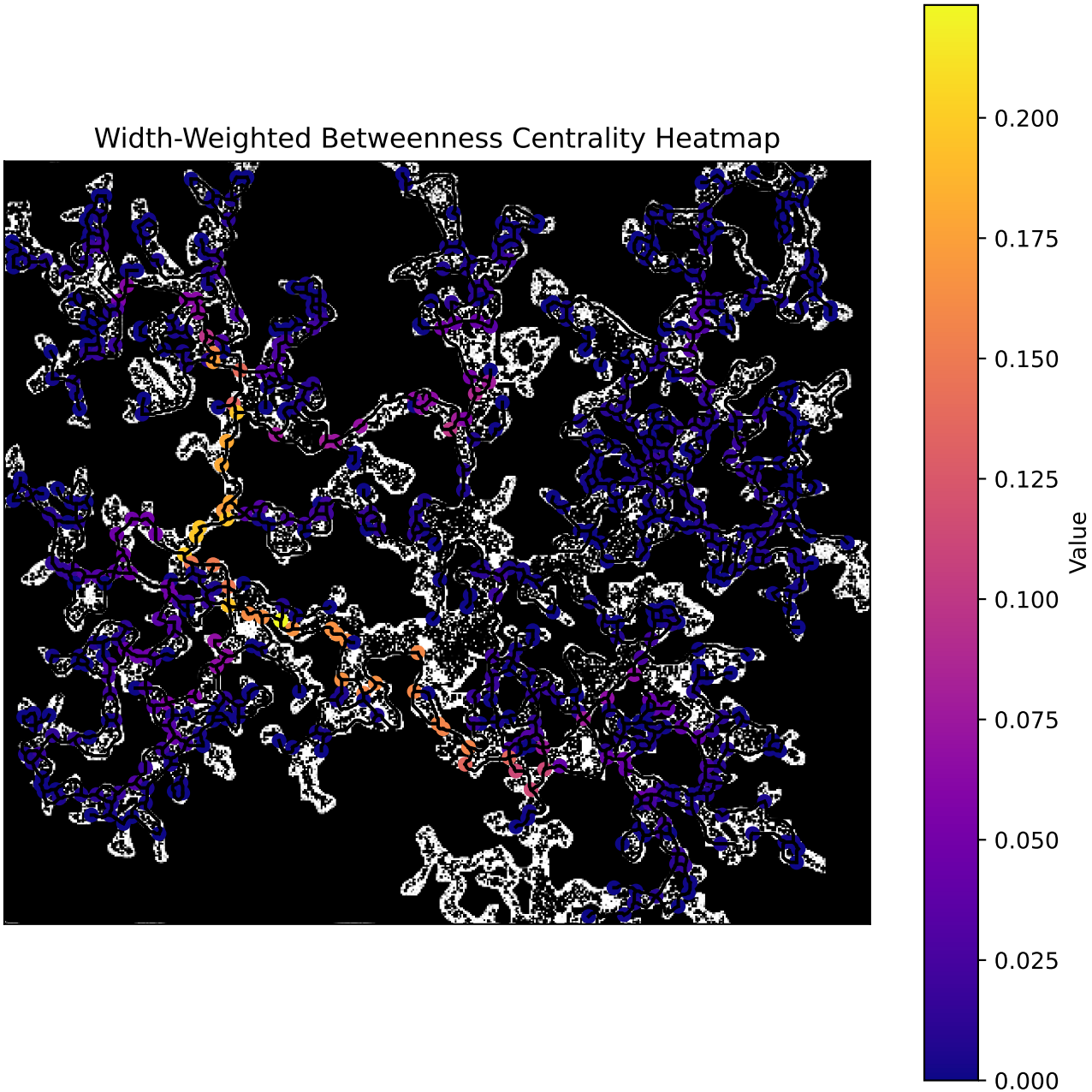

Weighted Degree: σ=0.654
Counts
Degree
Width-Weighted Betweenness: σ=0.039
Counts
Betweenness value
Length-Weighted Closeness: σ=0.0
Counts
Closeness value
Width-Weighted Eigenvector Cent.: σ=0.038
Counts
Eigenvector value

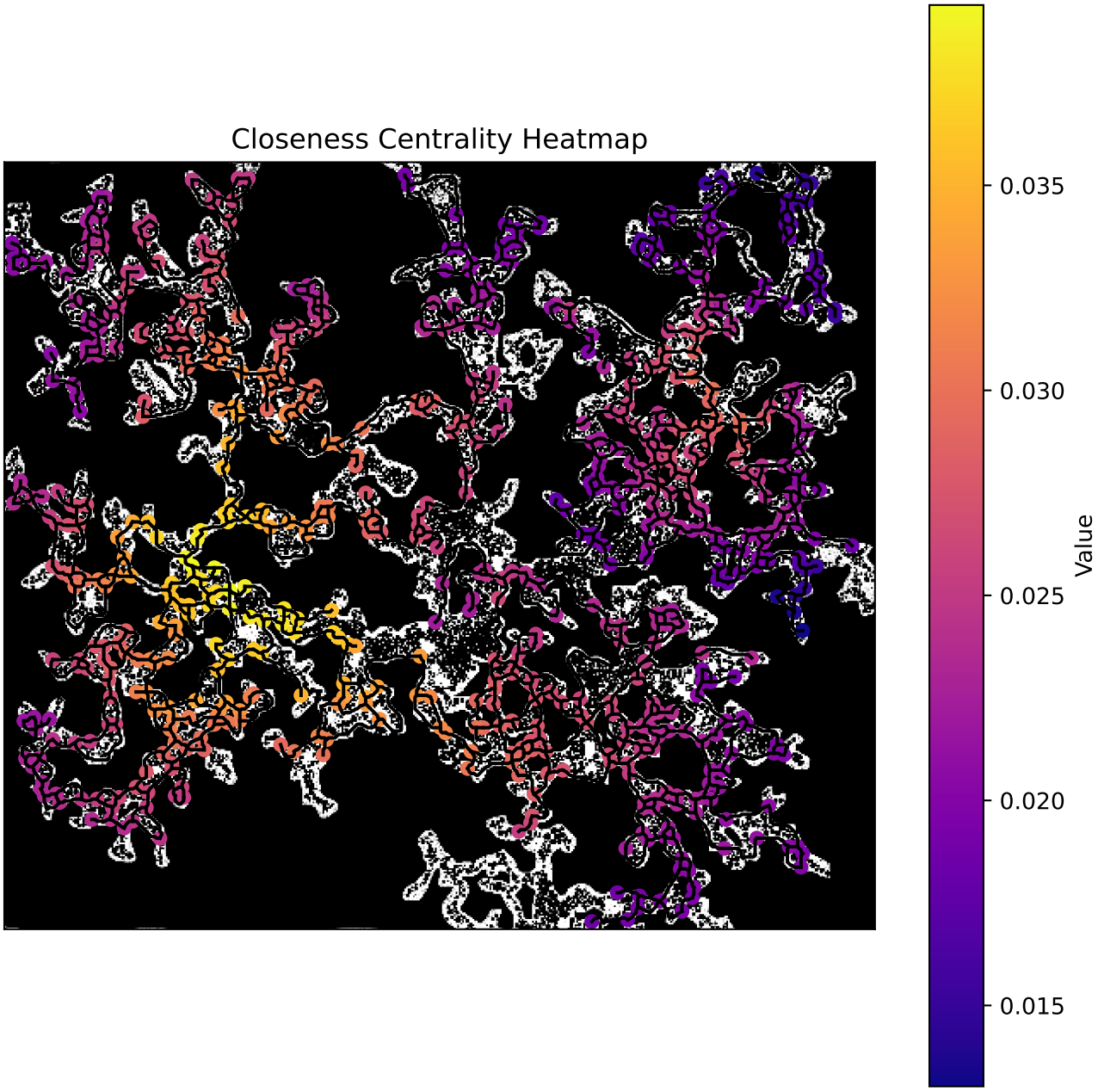

Degree Heatmap
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
Value

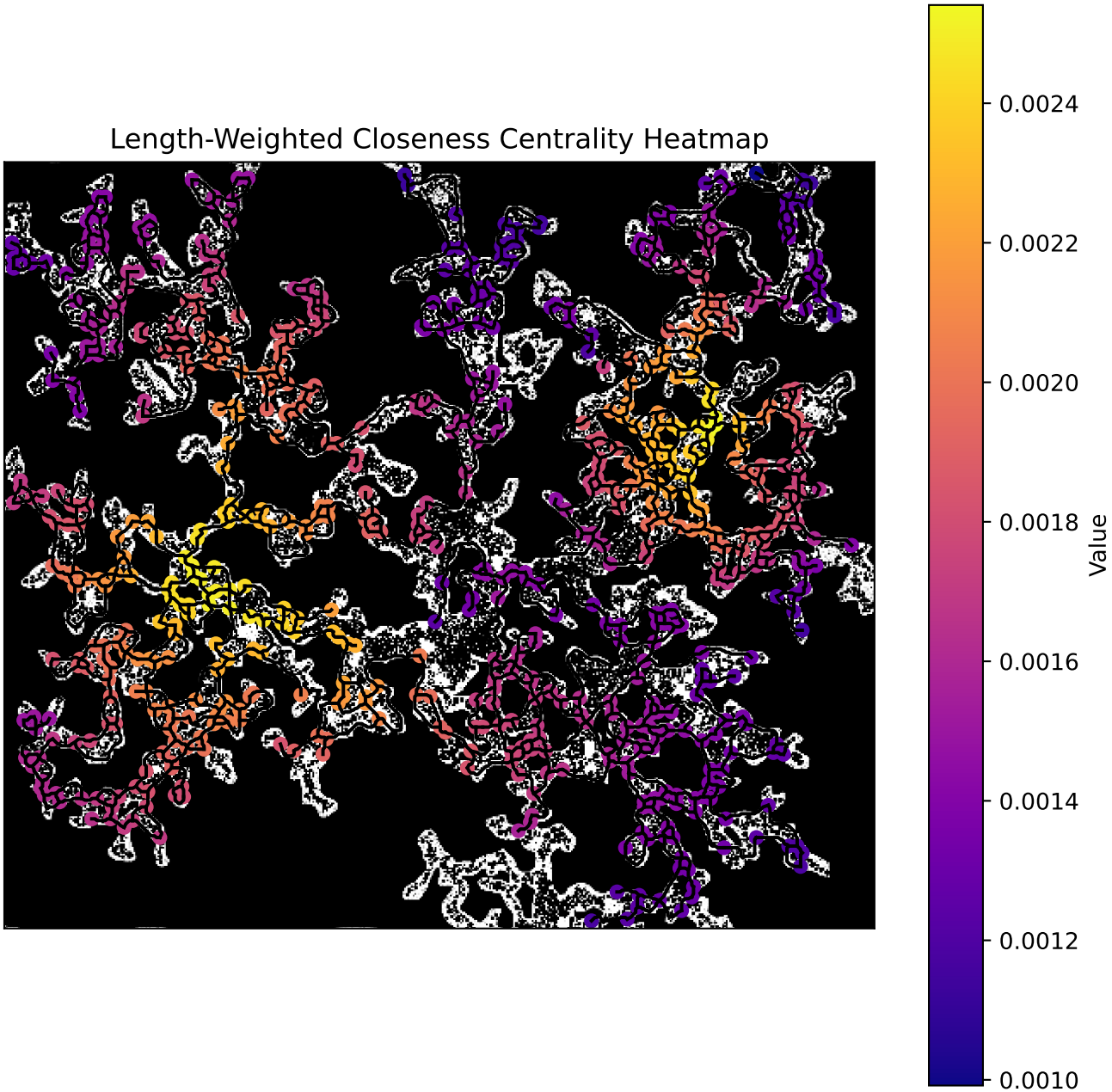

Weighted Degree Heatmap
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
Value

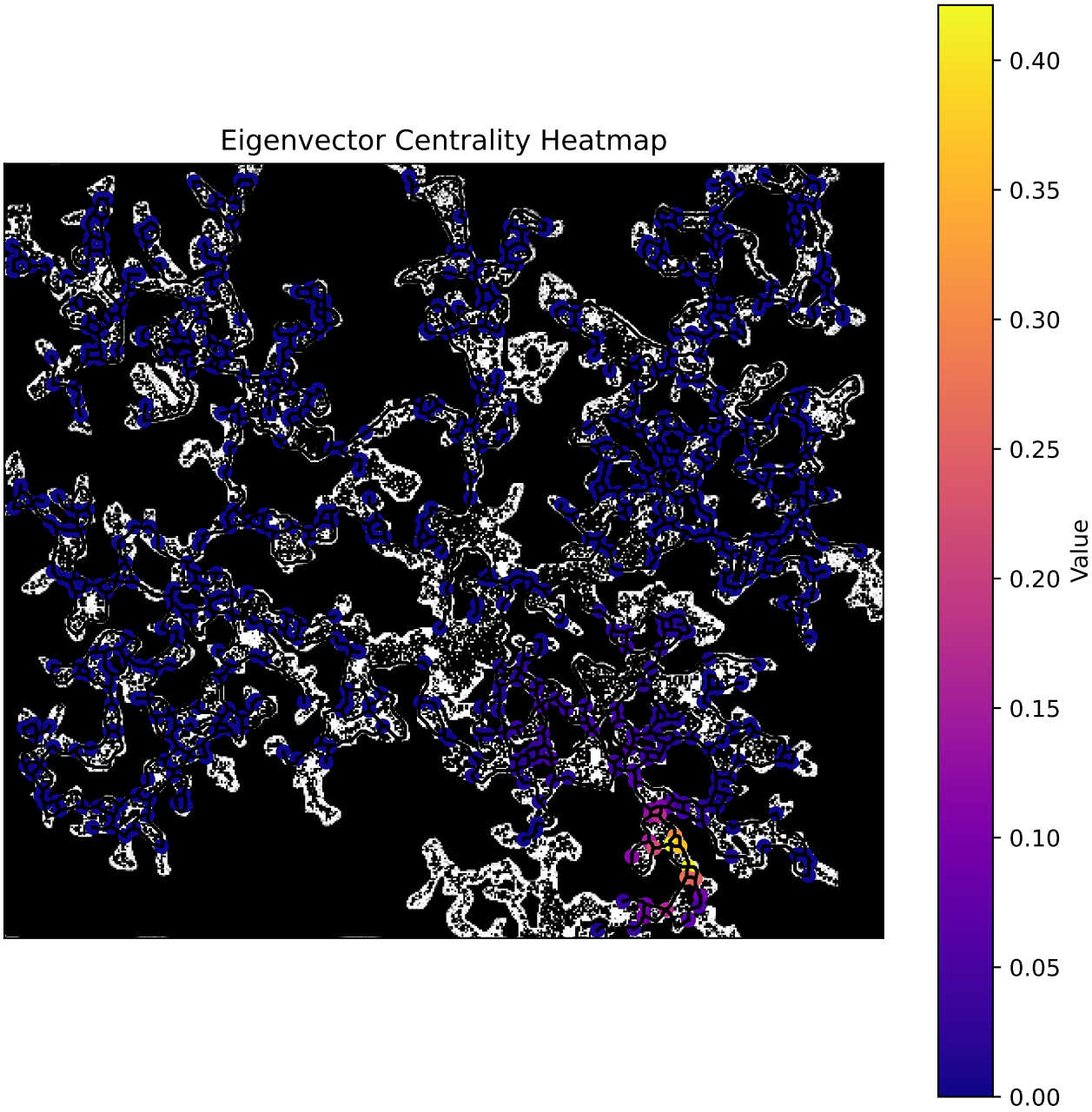

Clustering Coefficient Heatmap
1.0
0.8
0.6
0.4
0.2
0.0
Value

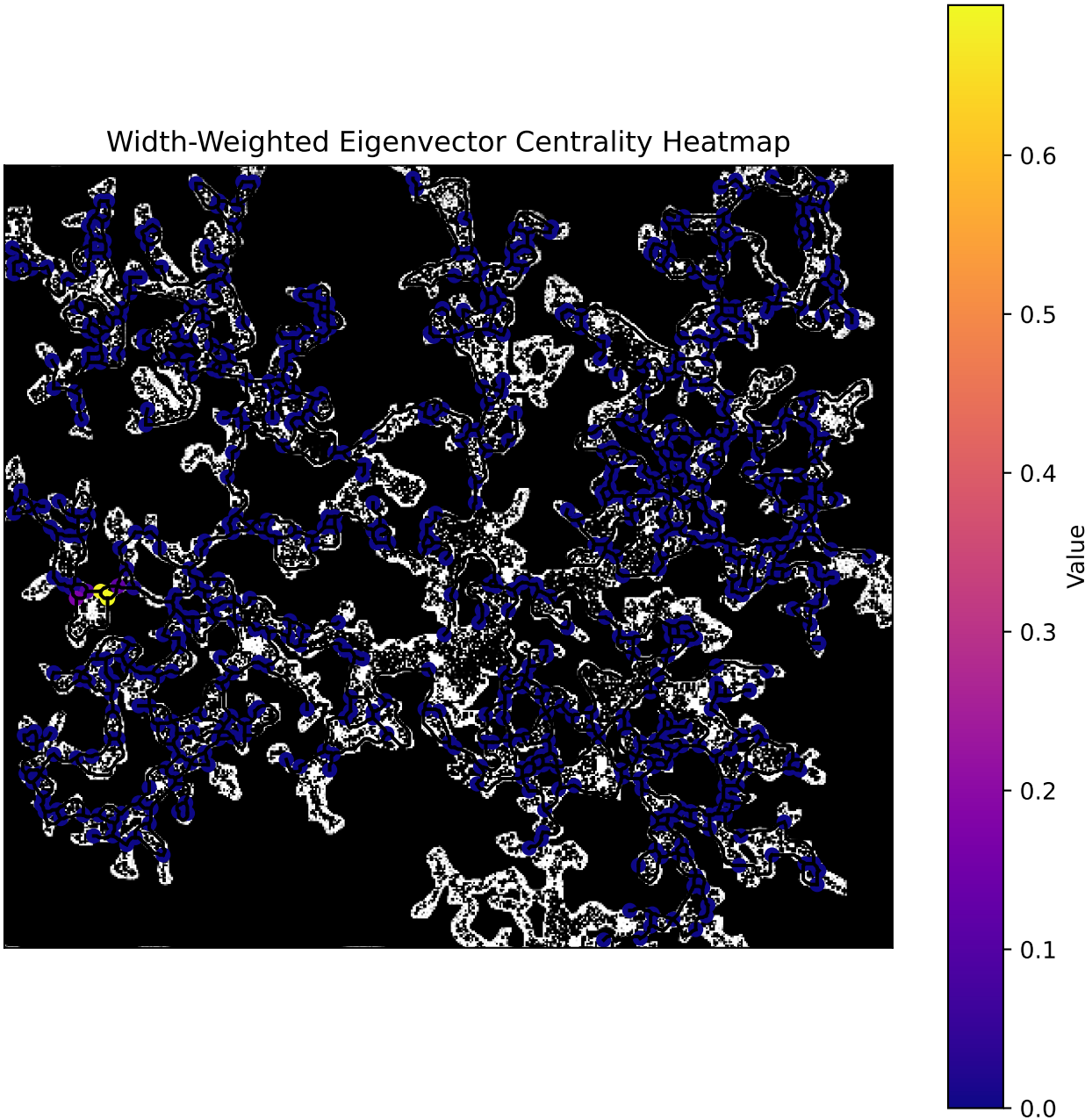

Betweenness Centrality Heatmap
0.25
0.20
0.15
0.10
0.05
0.00
Value


Width-Weighted Betweenness Centrality Heatmap
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
Value


Closeness Centrality Heatmap
0.035
0.030
0.025
0.020
0.015
Value


Length-Weighted Closeness Centrality Heatmap
0.0024
0.0022
0.0020
0.0018
0.0016
0.0014
0.0012
0.0010
Value


Eigenvector Centrality Heatmap
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Value


Width-Weighted Eigenvector Centrality Heatmap
Value
0.0
0.1
0.2
0.3
0.4
0.5
0.6

Run Info
../examples/Cont-SR_NPs.tif || 2024-02-01 09:30:49
|| Global Threshold (127) || Median Filter || Gaussian Blur, 3 bit kernel || Autolevel || Low-pass filter10
|| Merge Nodes || Prune Dangling Edges || Remove Objects of Size 500 || Remove Self Loops