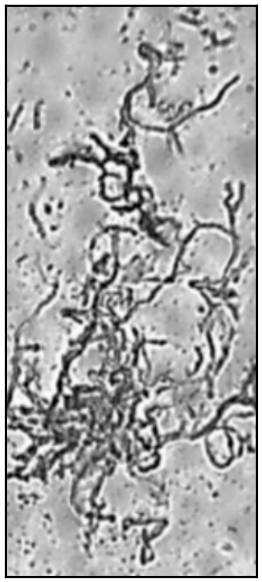
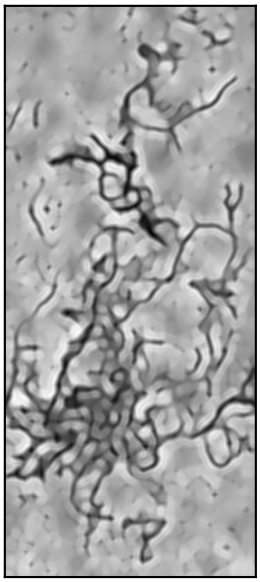
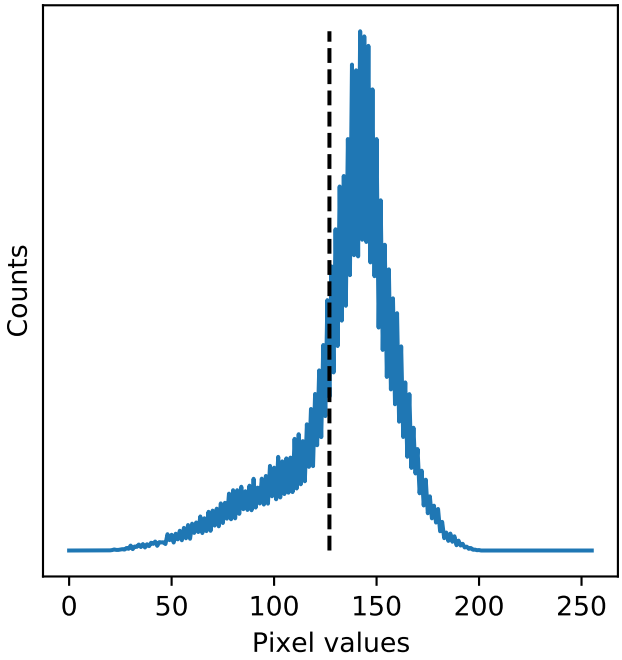
Original Image



Processed Image

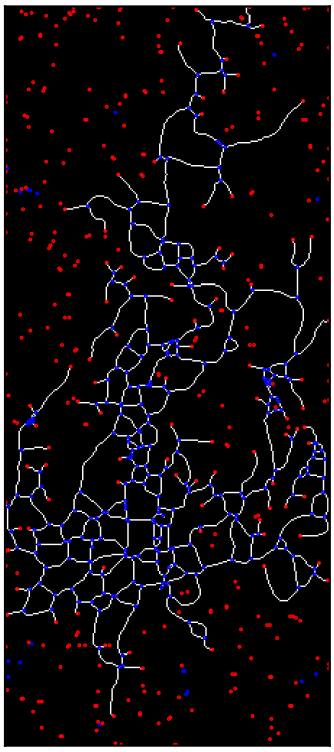


Histogram of Processed Image

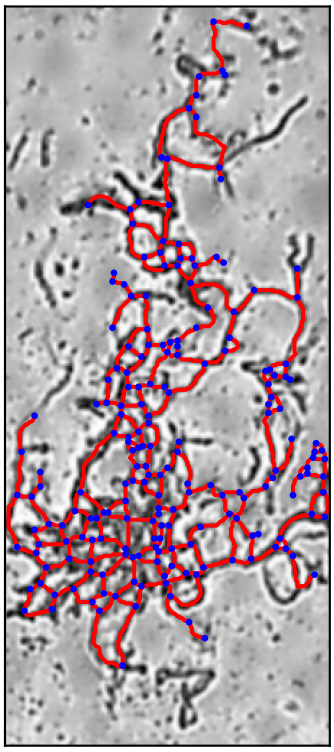


Binary Image

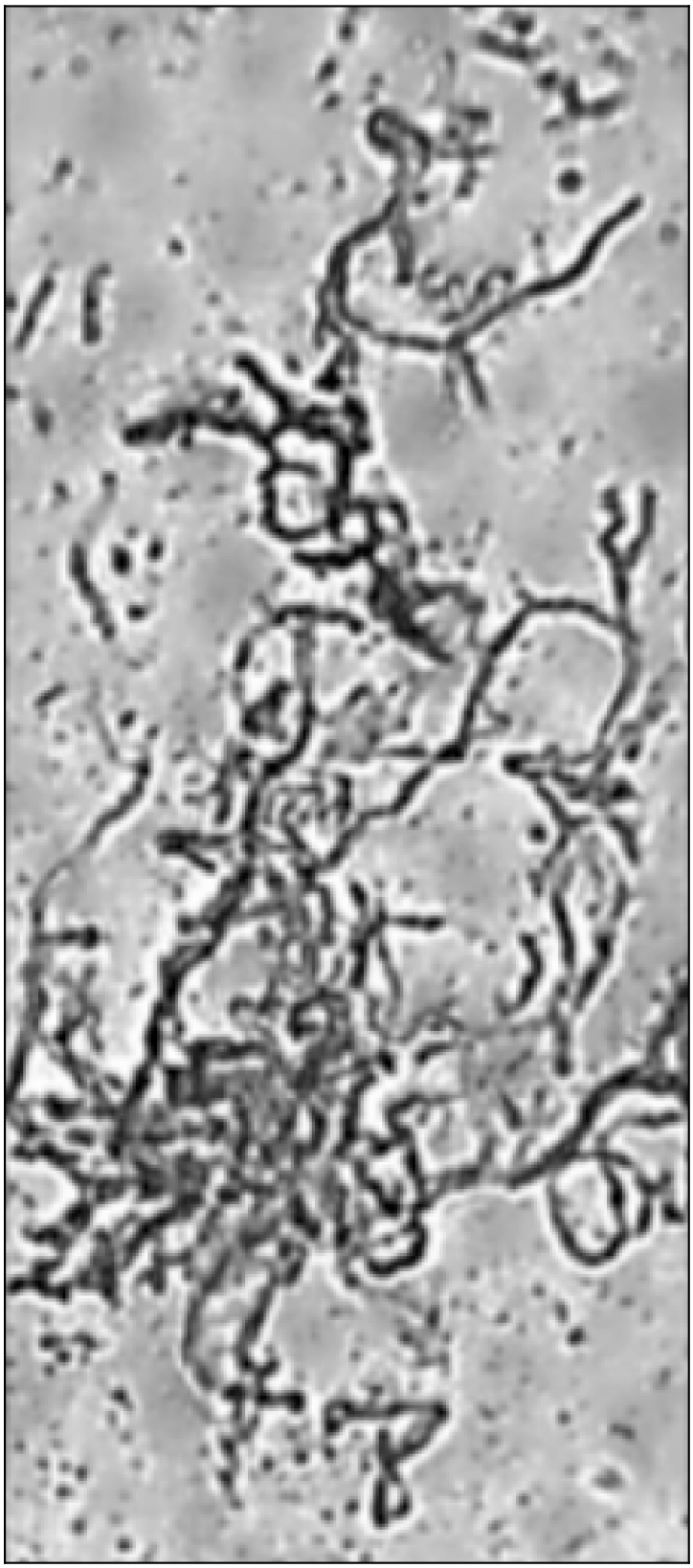
Skeletal Image



Final Graph



Sub Graphs

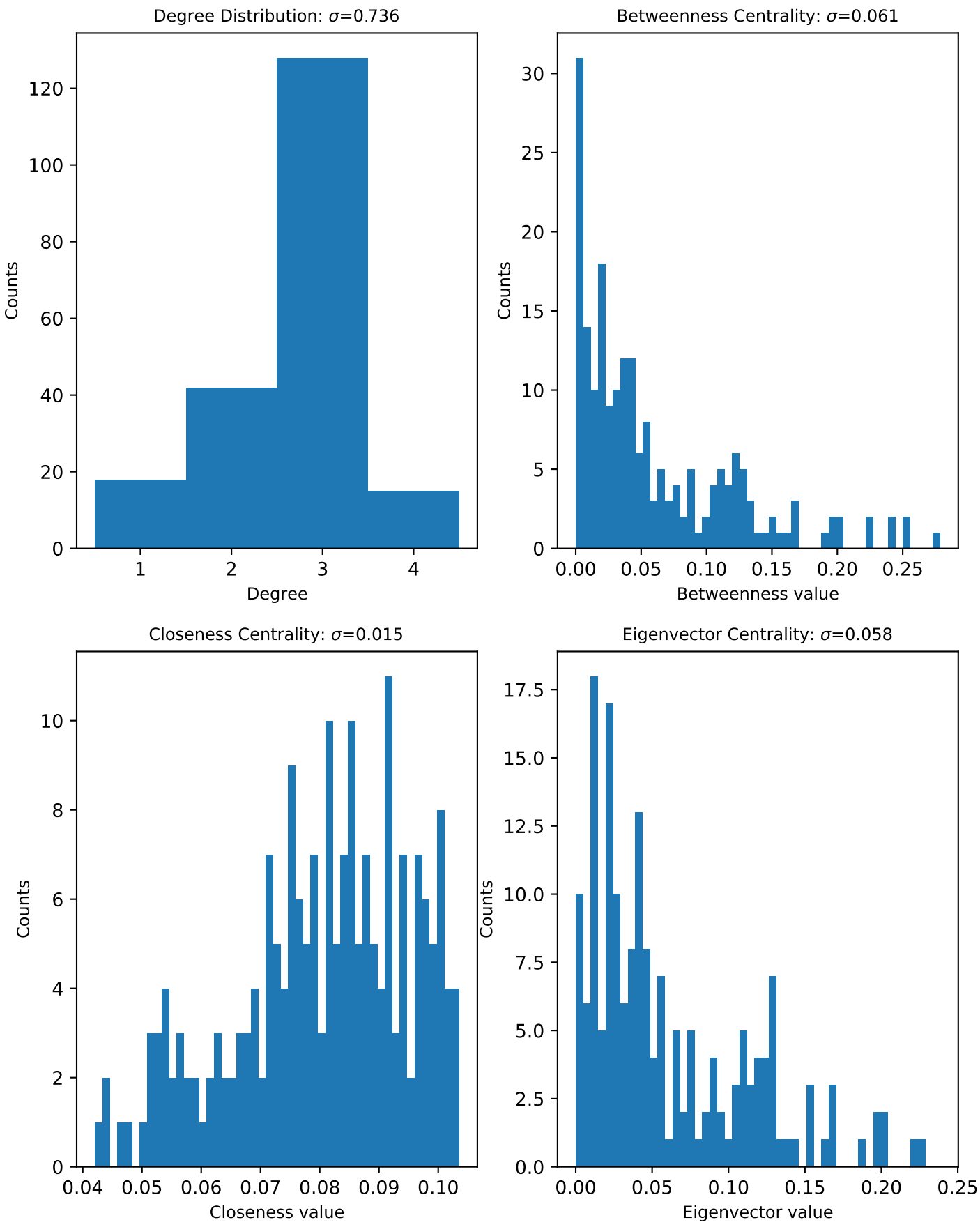


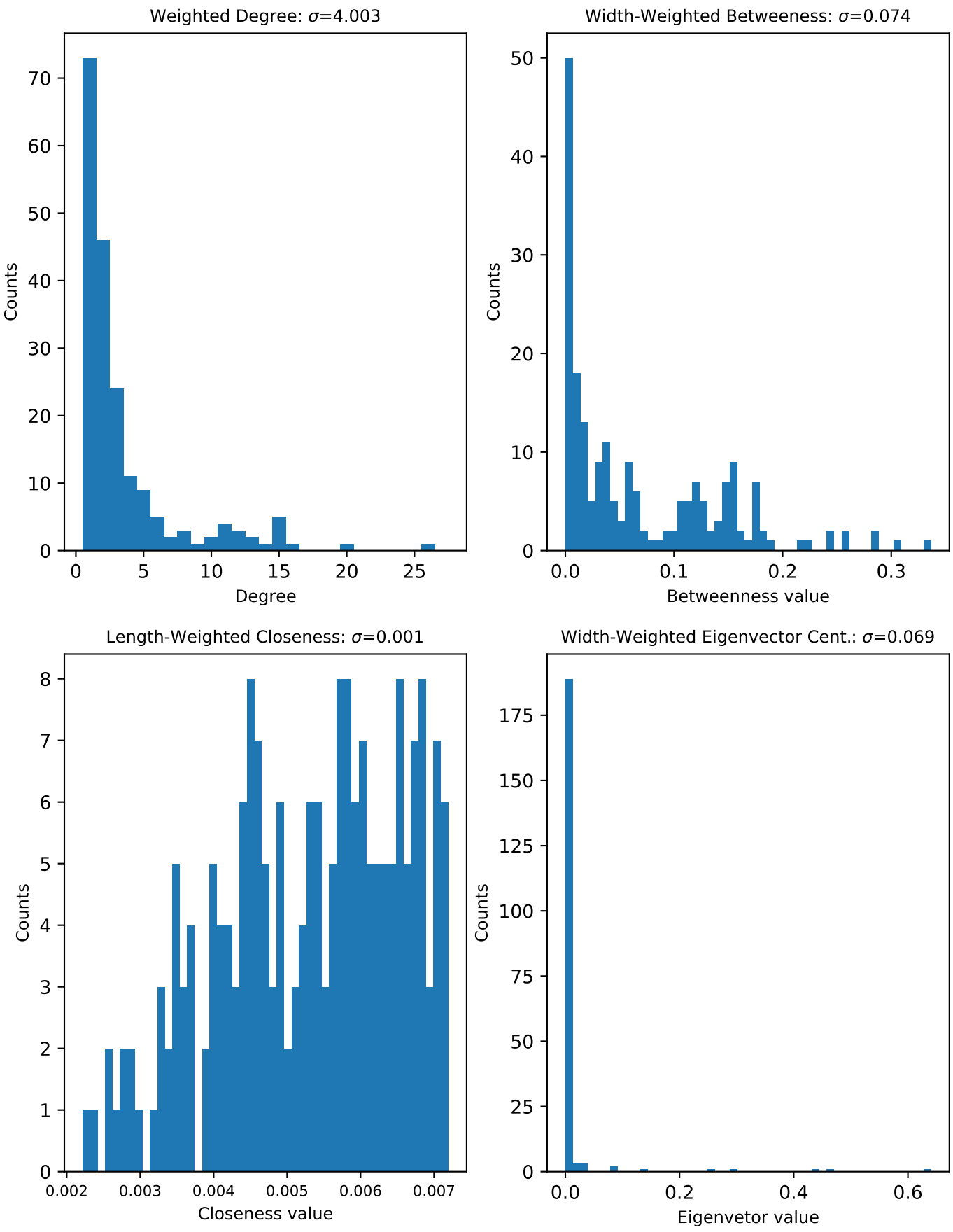
Unweighted GT parameters

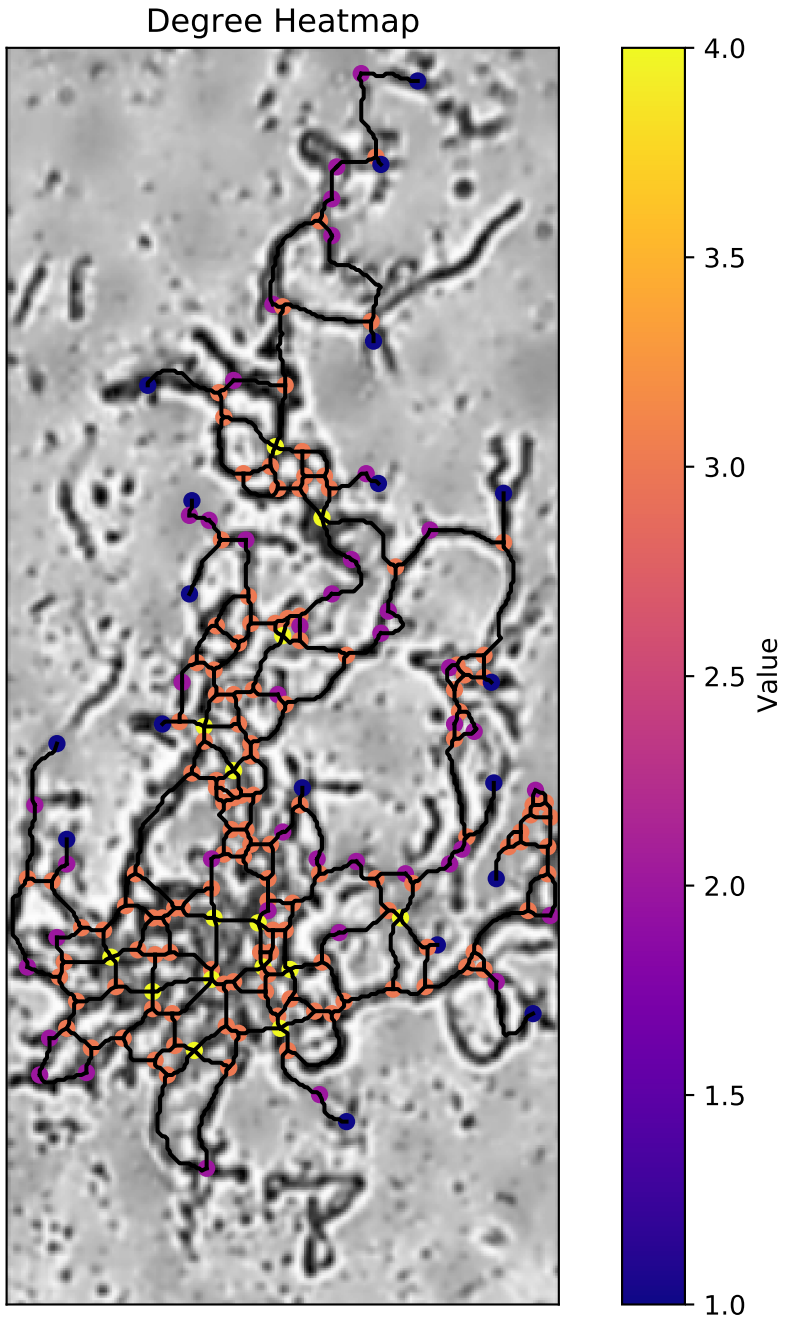
Number of nodes	203.0
Number of edges	273.0
Average degree	2.68966
Network diameter	38.0
Graph density	0.01332
Global efficiency	0.12172
Wiener Index	265941.0
Average clustering coefficient	0.05337
Average nodal connectivity	1.68239
Assortativity coefficient	0.16908
Average betweenness centrality	0.05956
Average closeness centrality	0.08024
Average eigenvector centrality	0.03934
Graph Conductance (max)	0.05514487615012398
Graph Conductance (min)	0.0007602393414031281

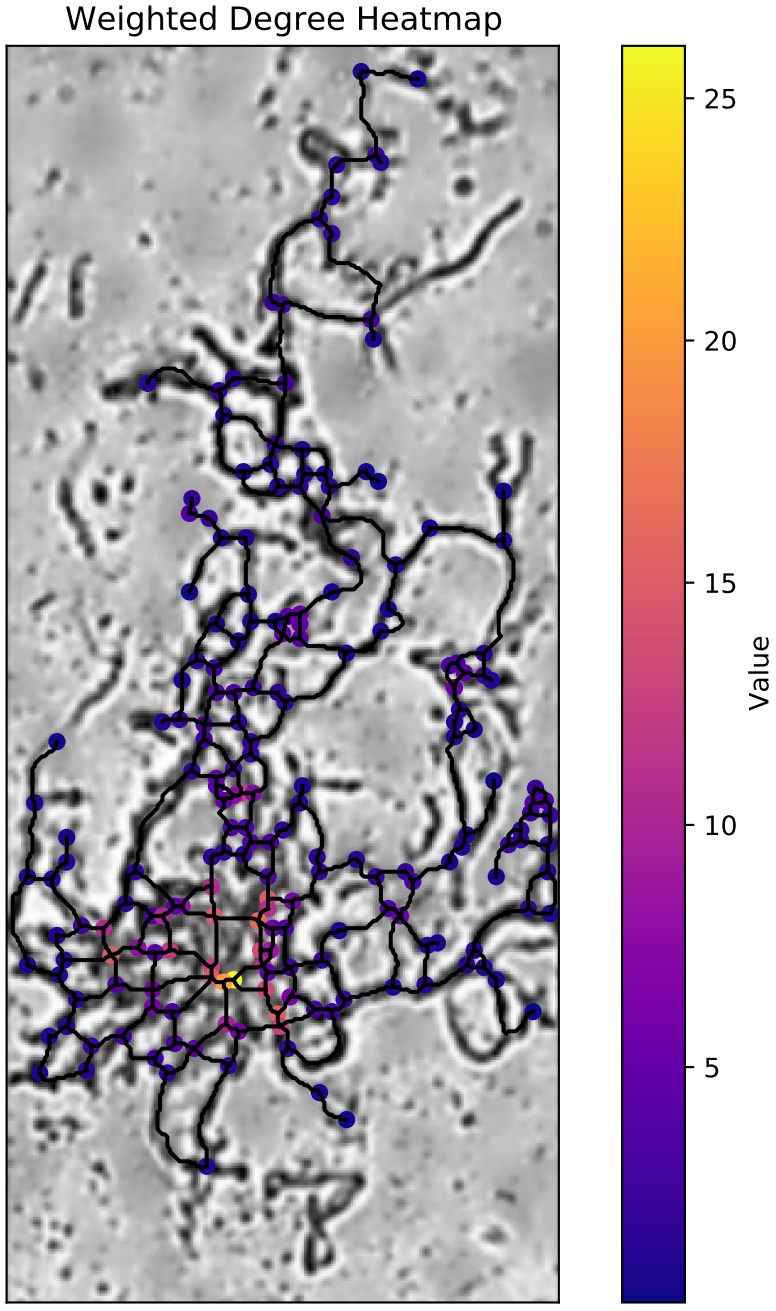
Weighted GT Parameters

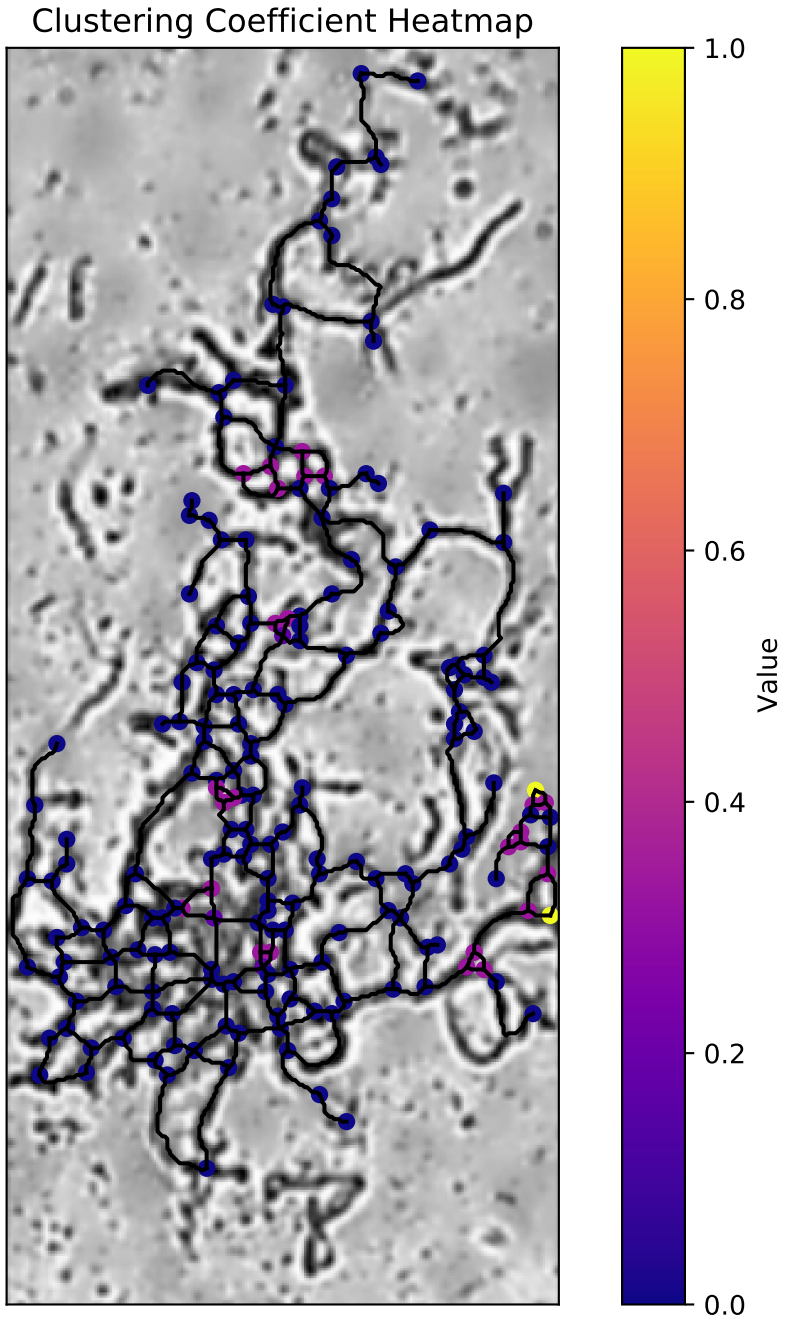
Weighted average degree	3.33626
Length-weighted Wiener Index	4132521.2
Max flow between periphery	1.99731
Weighted assortativity coefficient	0.67072
Width-weighted average betweenness centrality	0.0682
Length-weighted average closeness centrality	0.0053
Width-weighted average eigenvector centrality	0.01304

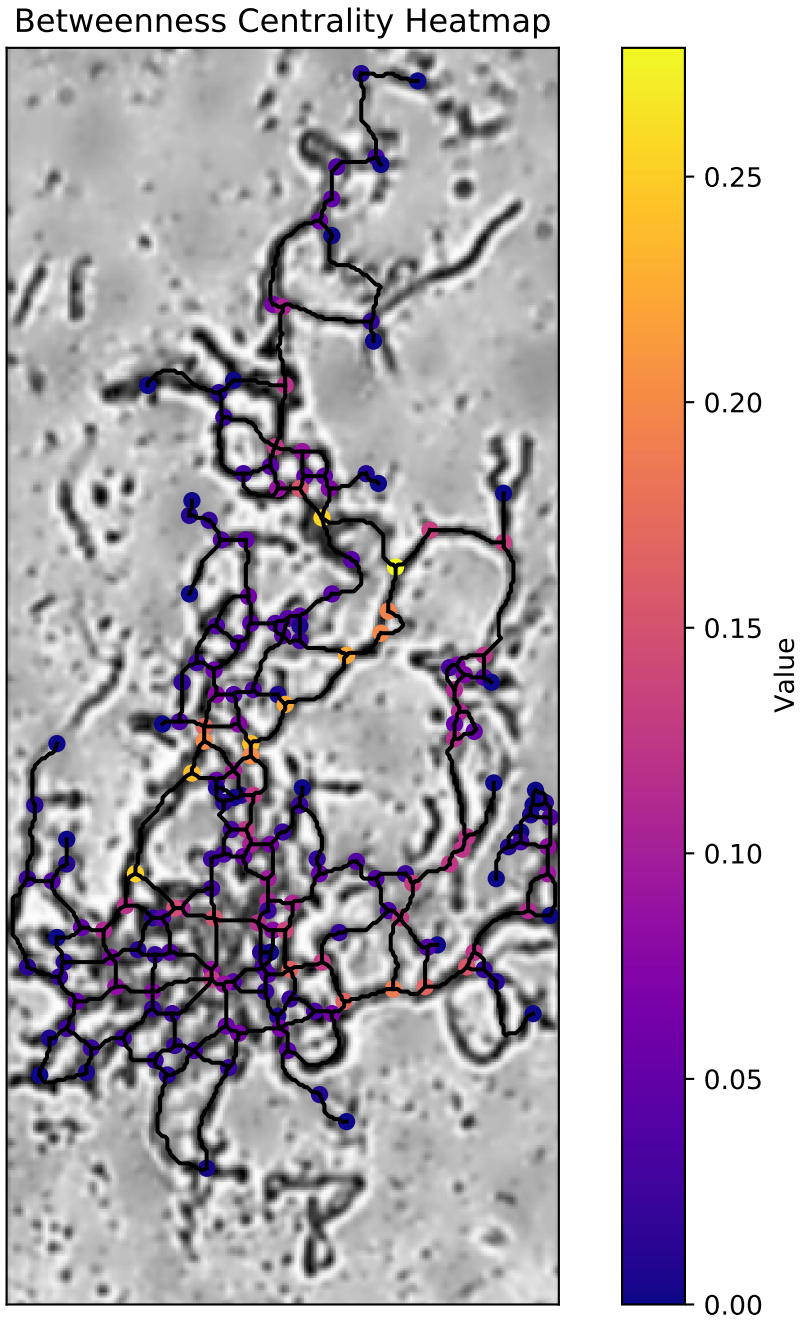

Degree Distribution: σ=0.736
Counts
Degree
Betweenness Centrality: σ=0.061
Counts
Betweenness value
Closeness Centrality: σ=0.015
Counts
Closeness value
Eigenvector Centrality: σ=0.058
Counts
Eigenvector value

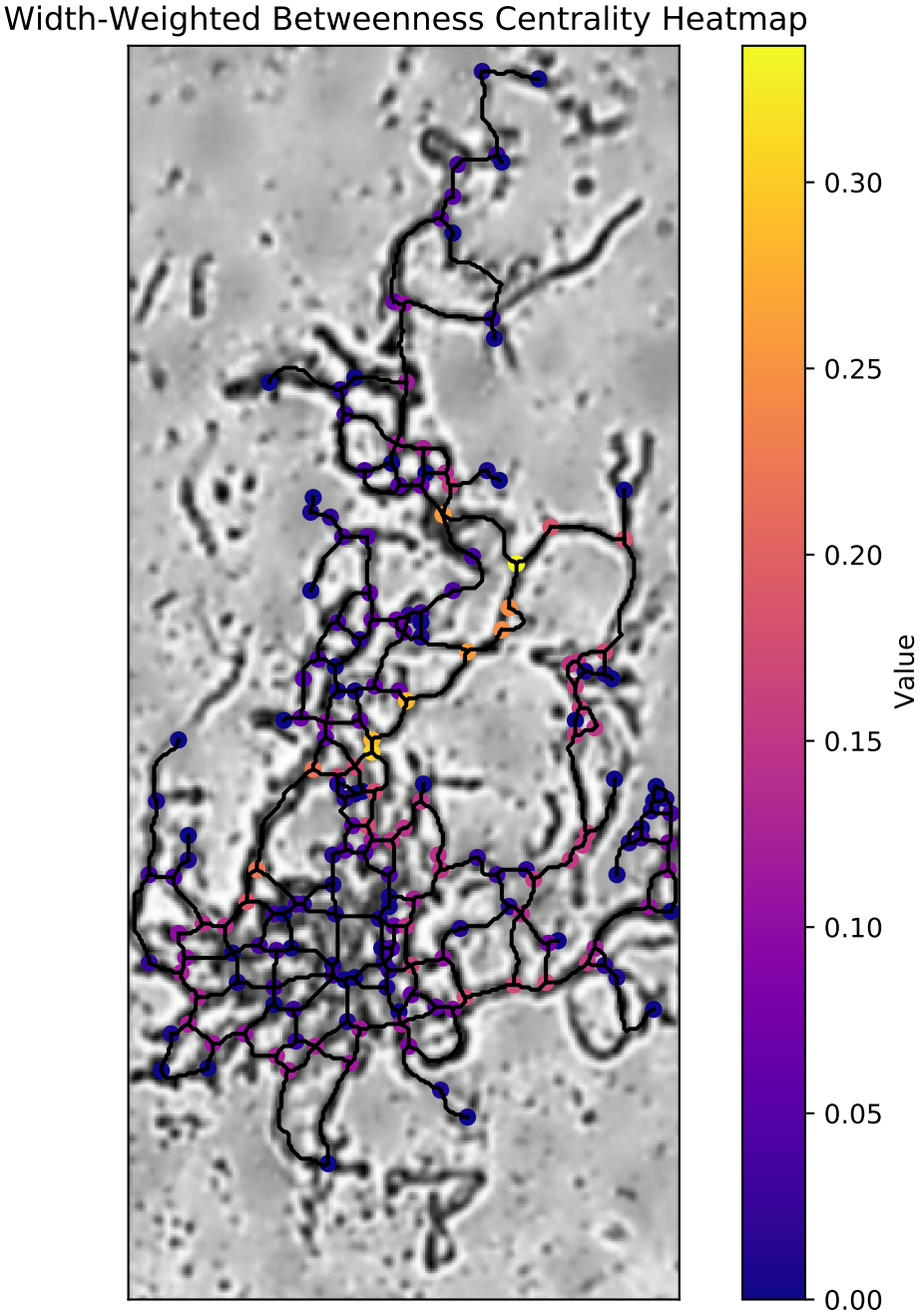

Weighted Degree: σ=4.003
Counts
Degree
Width-Weighted Betweeness: σ=0.074
Counts
Betweenness value
Length-Weighted Closeness: σ=0.001
Counts
Closeness value
Width-Weighted Eigenvector Cent.: σ=0.069
Counts
Eigenvetor value

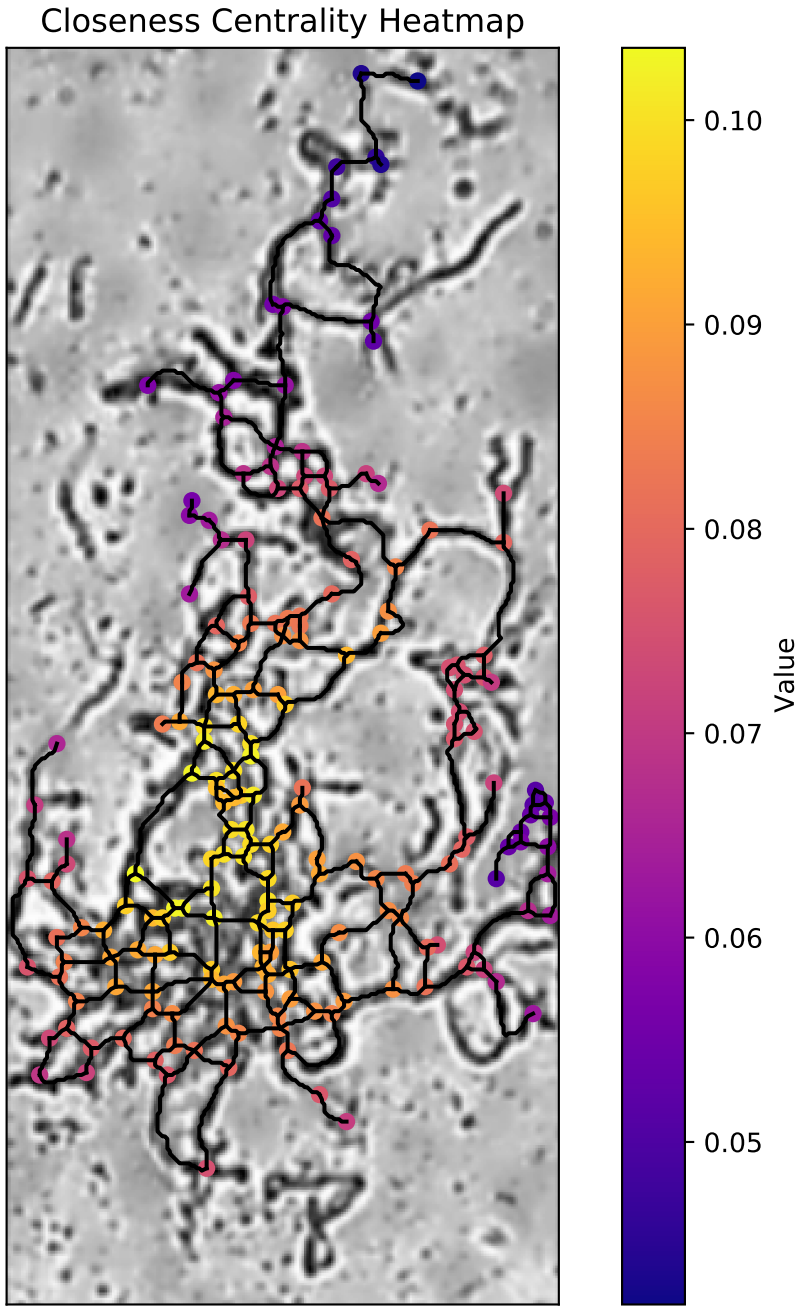

Degree Heatmap
4.0
3.5
3.0
2.5
2.0
1.5
1.0
Value

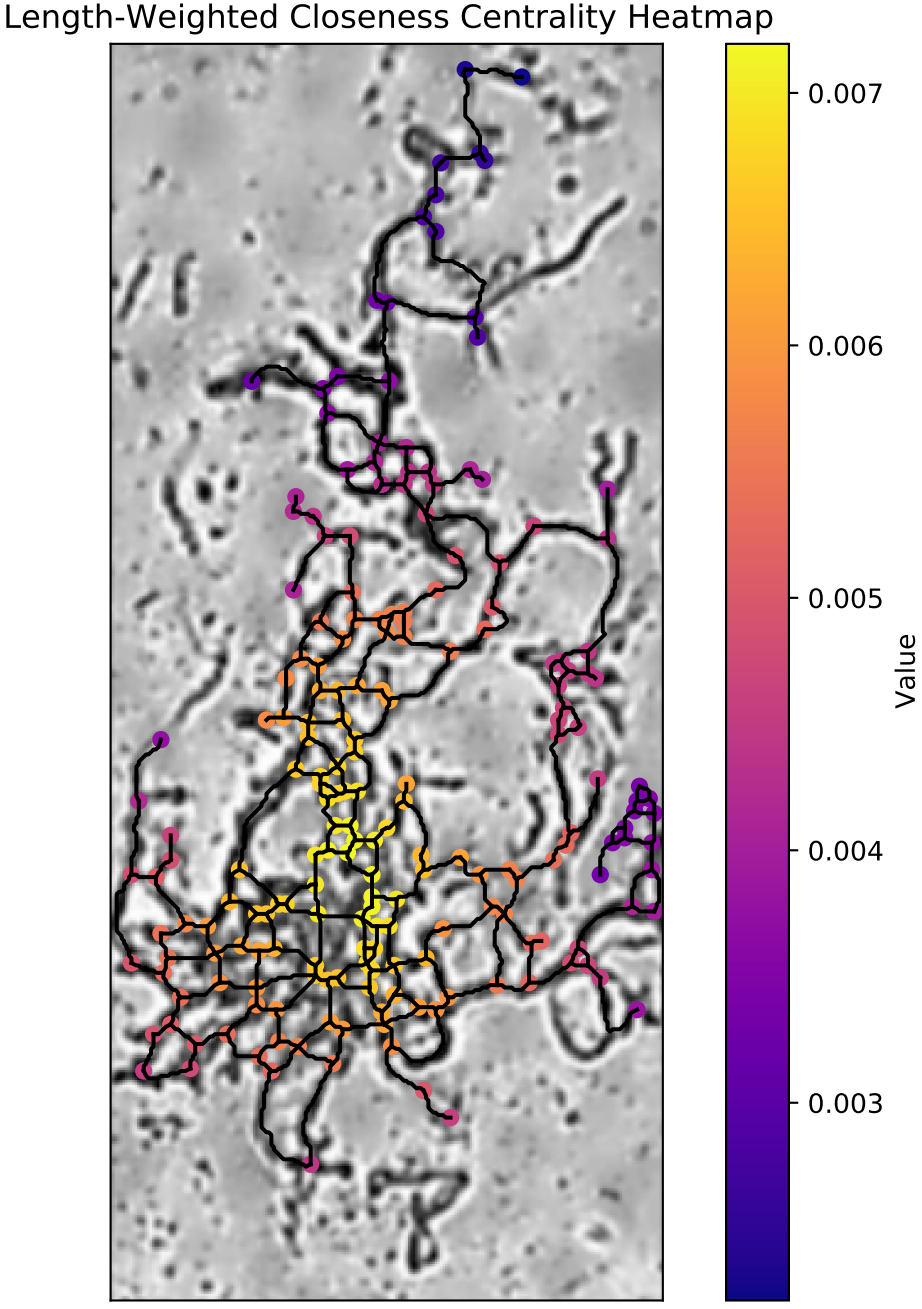

Weighted Degree Heatmap
25
20
15
10
5
Value

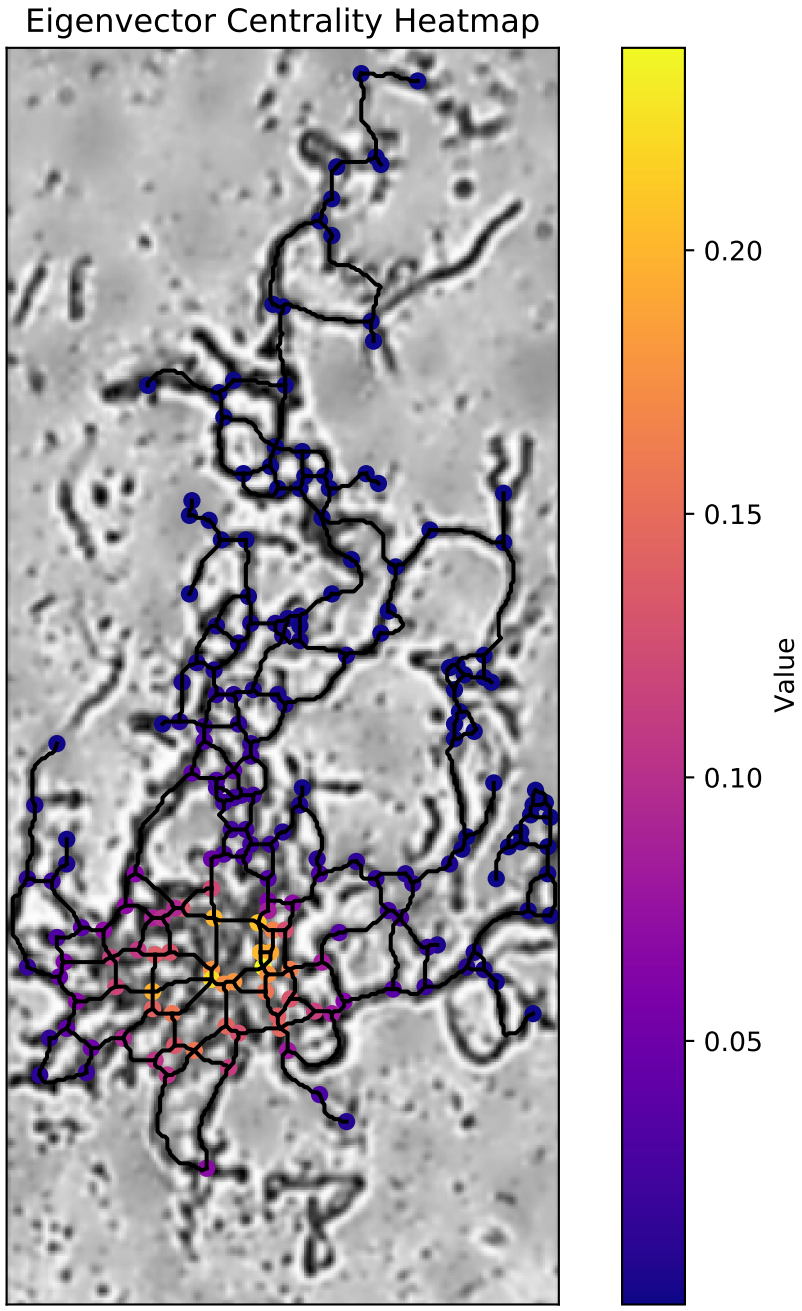

Clustering Coefficient Heatmap
1.0
0.8
0.6
0.4
0.2
0.0
Value

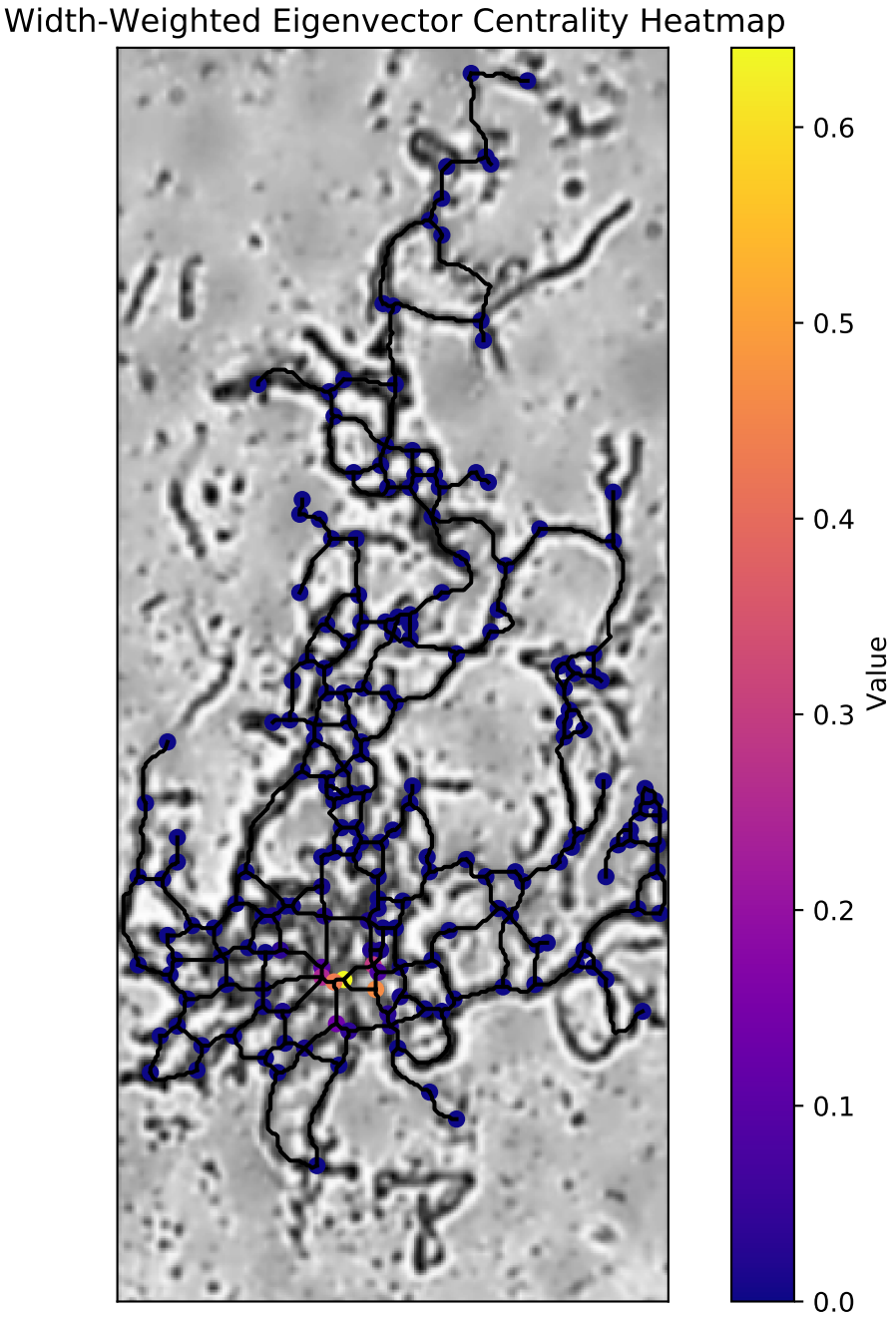

Betweenness Centrality Heatmap
0.25
0.20
0.15
0.10
0.05
0.00
Value


Width-Weighted Betweenness Centrality Heatmap
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Value


Closeness Centrality Heatmap
0.10
0.09
0.08
0.07
0.06
0.05
Value


Length-Weighted Closeness Centrality Heatmap
0.007
0.006
0.005
0.004
0.003
Value


Eigenvector Centrality Heatmap
0.20
0.15
0.10
0.05
Value


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

Run Info
streptomyces || 2024-01-31 13:18:35
|| Global Threshold (127) || Median Filter || Gaussian Blur, 3 bit kernel || Dark Foreground || Sobel Gradient || Low-pass filte
|| Merge Nodes || Prune Dangling Edges || Remove Objects of Size 500 || Remove Self Loops