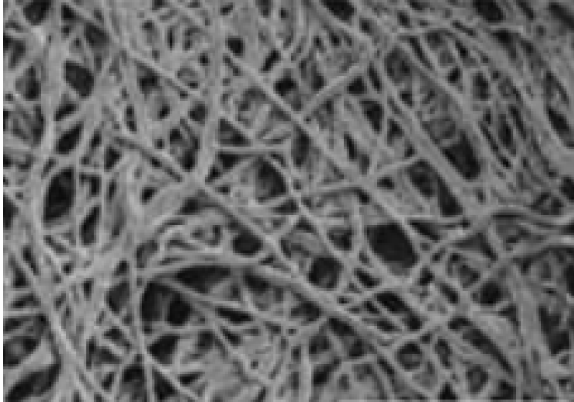
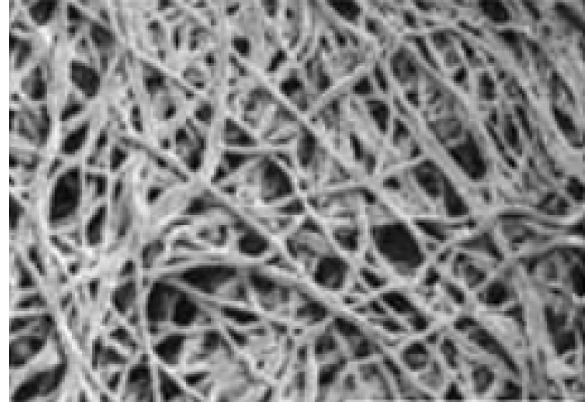


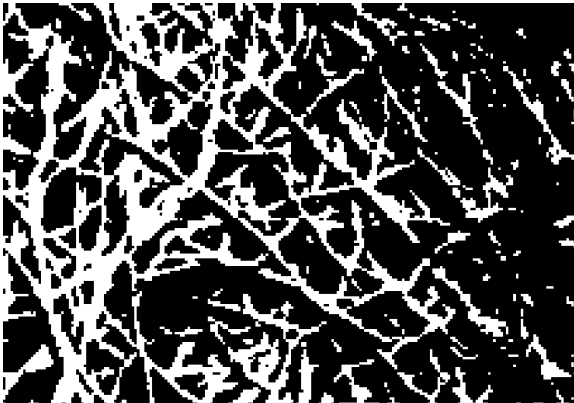
Original Image



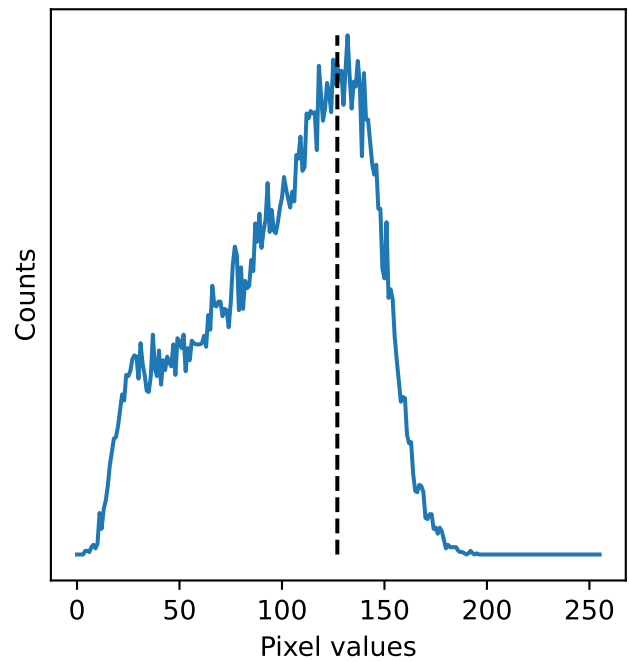
Processed Image



Binary Image



Histogram of Processed Image

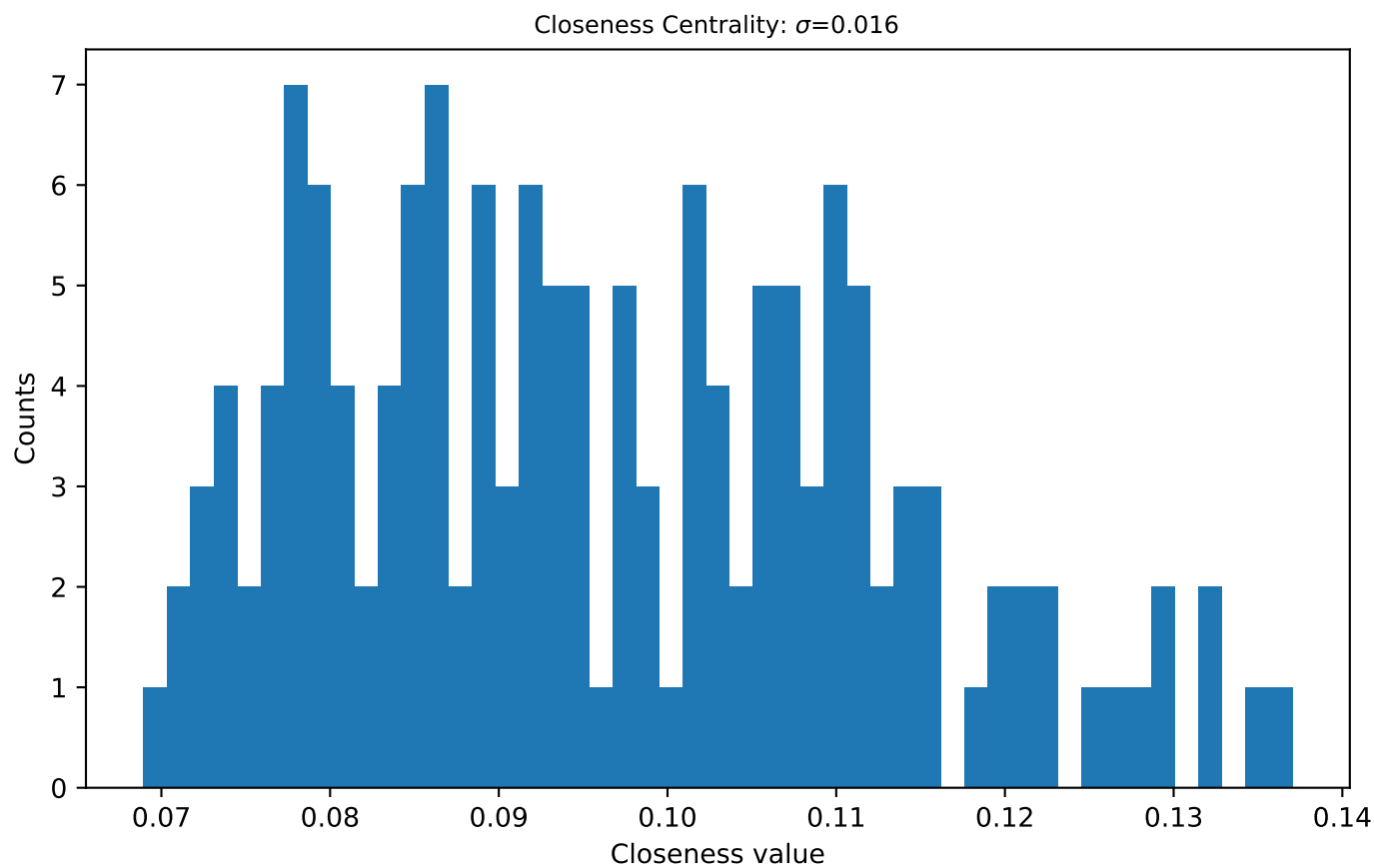
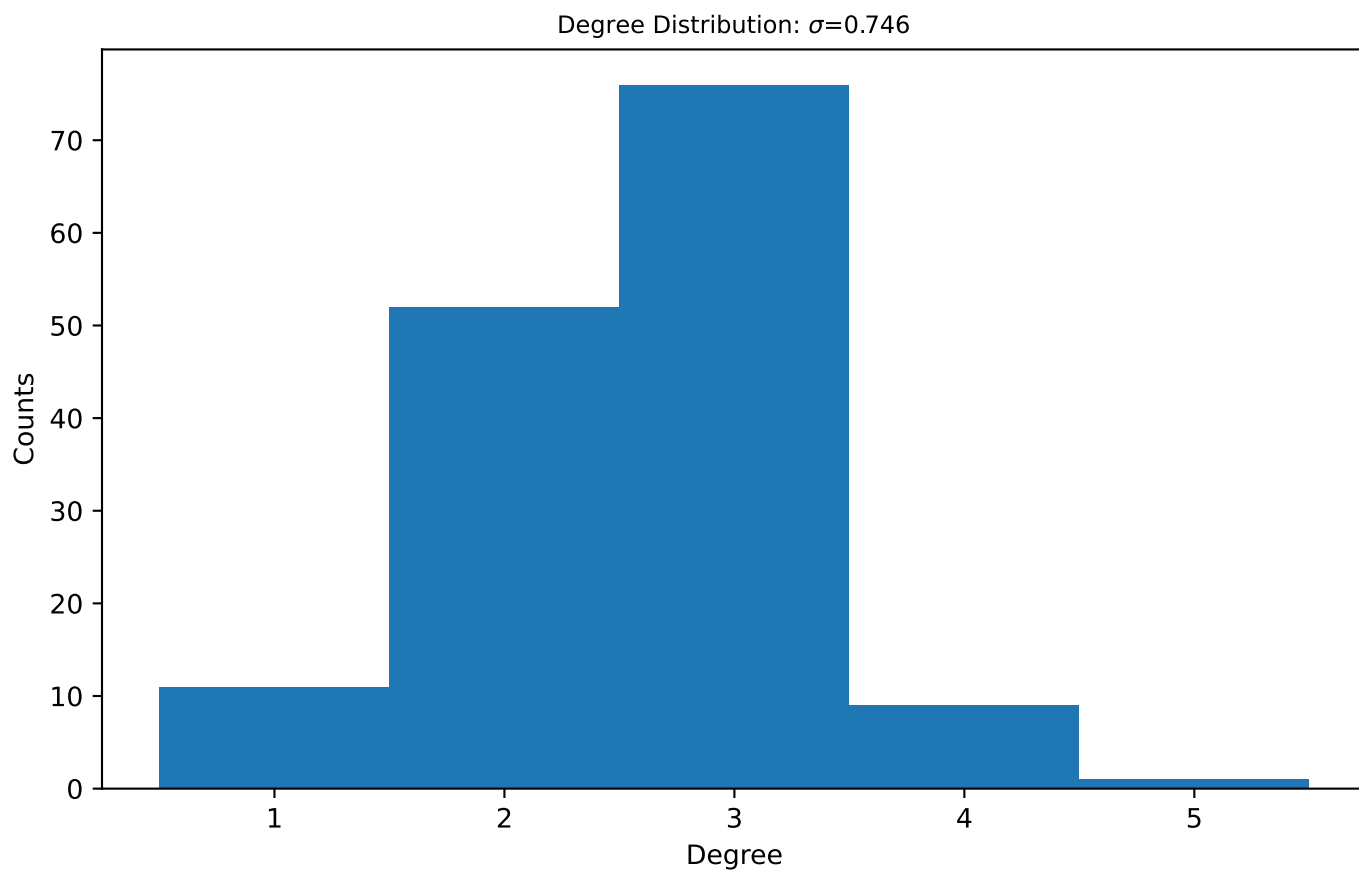


Unweighted GT parameters

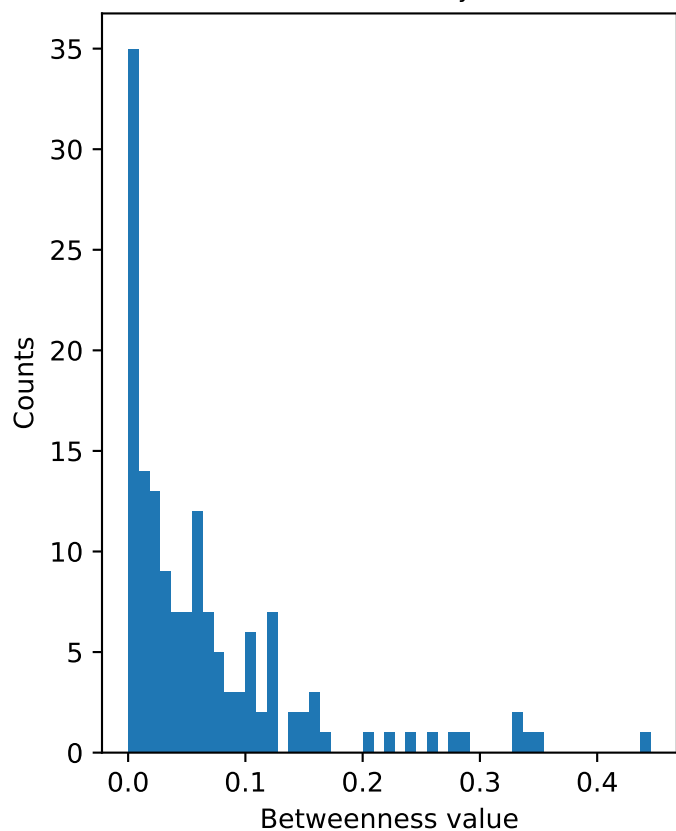
Number of nodes	149
Number of edges	192
Average edge angle (degrees)	144.24
Median edge angle (degrees)	77.471
Average degree	2.57718
Network diameter	24
Average node connectivity	1.60781
Graph density	0.01741
Global efficiency	0.13987
Wiener Index	117529.0
Assortativity coefficient	0.08185
Average clustering coefficient	0.13378
Average betweenness centrality	0.06571
Average eigenvector centrality	0.03868
Average closeness centrality	0.09637
Average Ohms centrality	0.38469
Ohms centrality (avg. area)	14.883896232899433 m^2
Ohms centrality (avg. length)	28.831388224384334 m
Ohms centrality (avg. width)	3.4037104304058605 m
Ohms centrality (g shape coeff.)	1
Ohms centrality (conductivity)	1.0 S/m

Weighted GT parameters

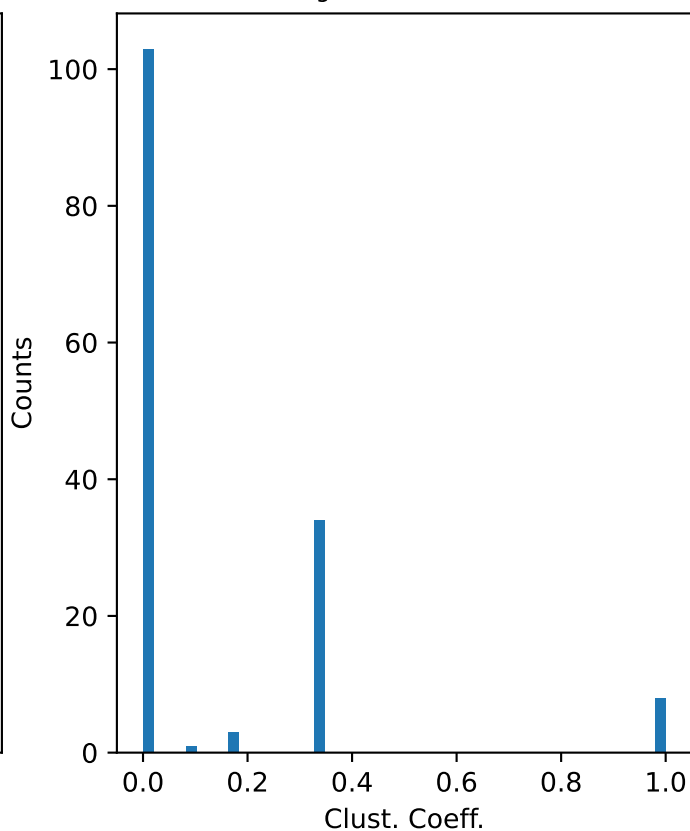
Diameter-weighted average degree	9.01903
Length-weighted Wiener Index	1220966.7
Max flow between periphery	1.91421
Width-weighted assortativity coefficient	0.45229
Diameter-weighted average betweenness centrality	0.07809
Length-weighted average closeness centrality	0.00941
Diameter-weighted average eigenvector centrality	0.02178



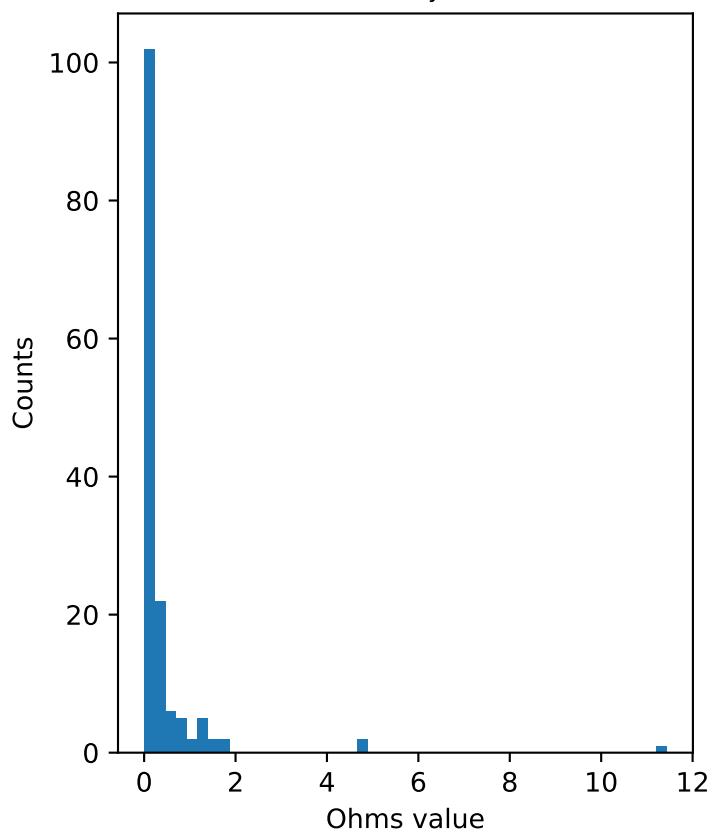
Betweenness Centrality: $\sigma=0.081$



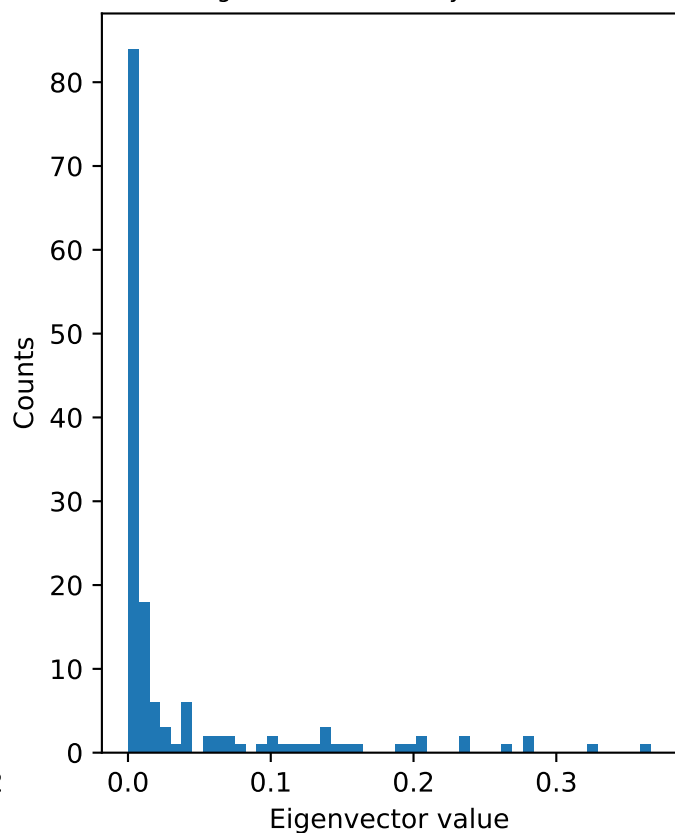
Clustering Coefficients: $\sigma=0.249$



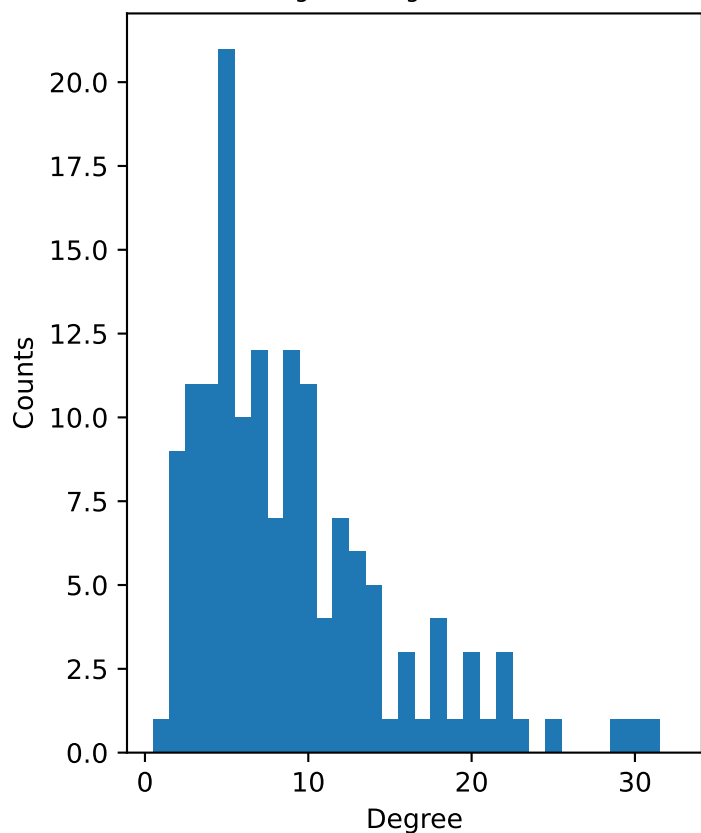
Ohms Centrality: $\sigma=1.116$



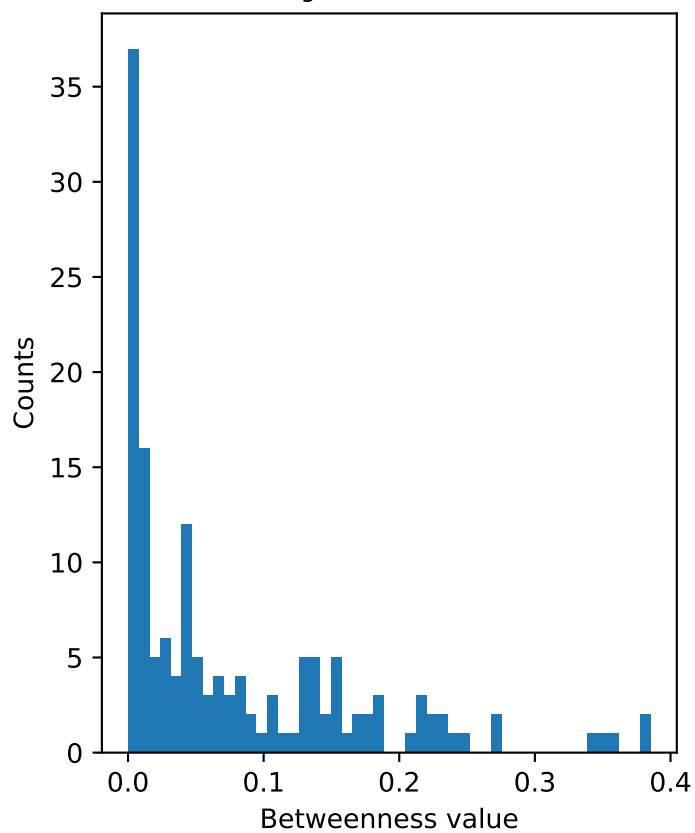
Eigenvector Centrality: $\sigma=0.072$



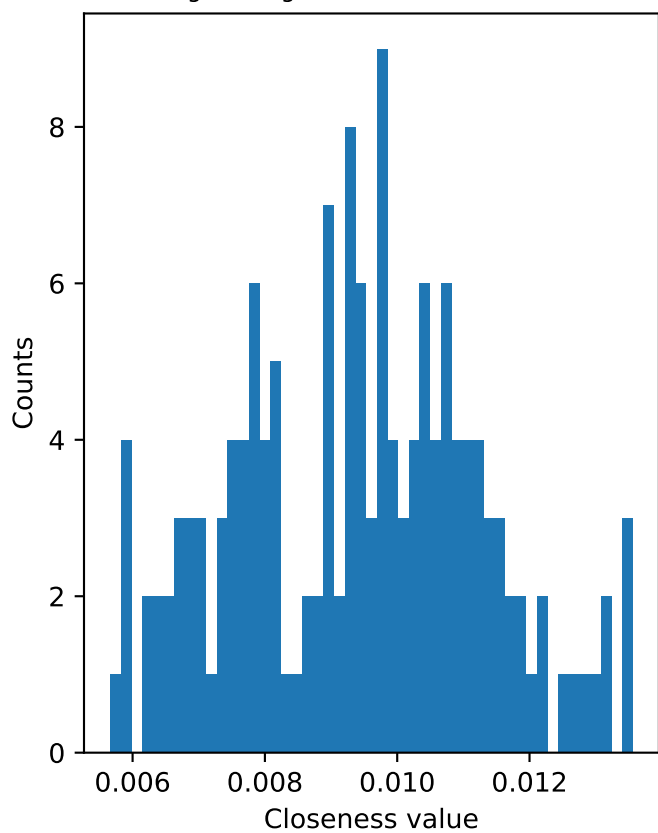
Weighted Degree: $\sigma=6.111$



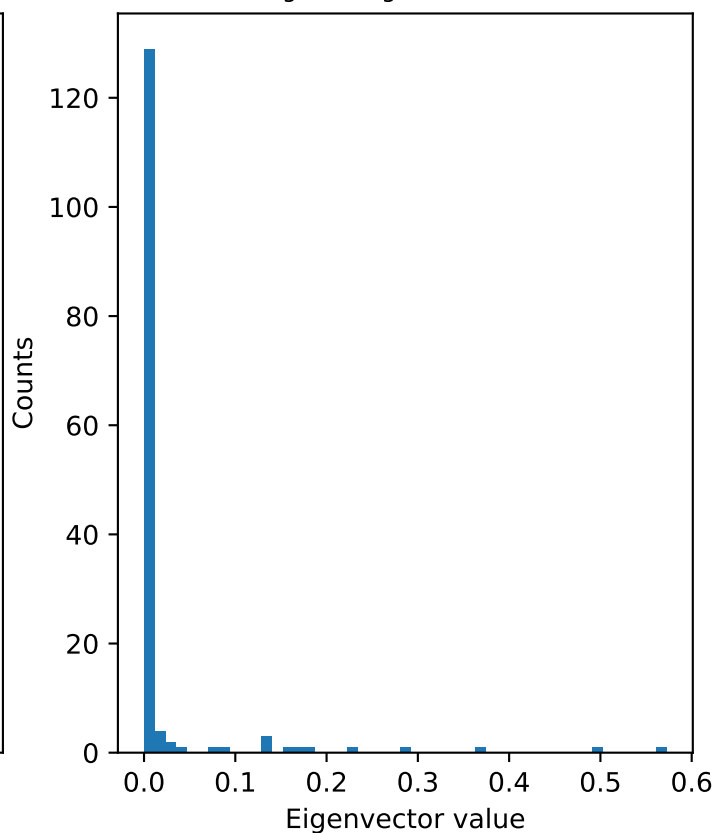
Diameter-Weighted Betweenness: $\sigma=0.09$



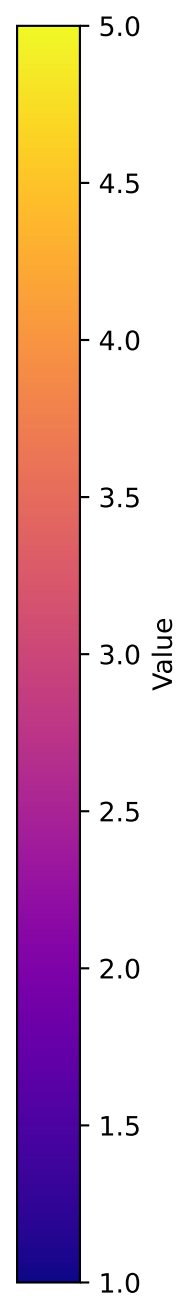
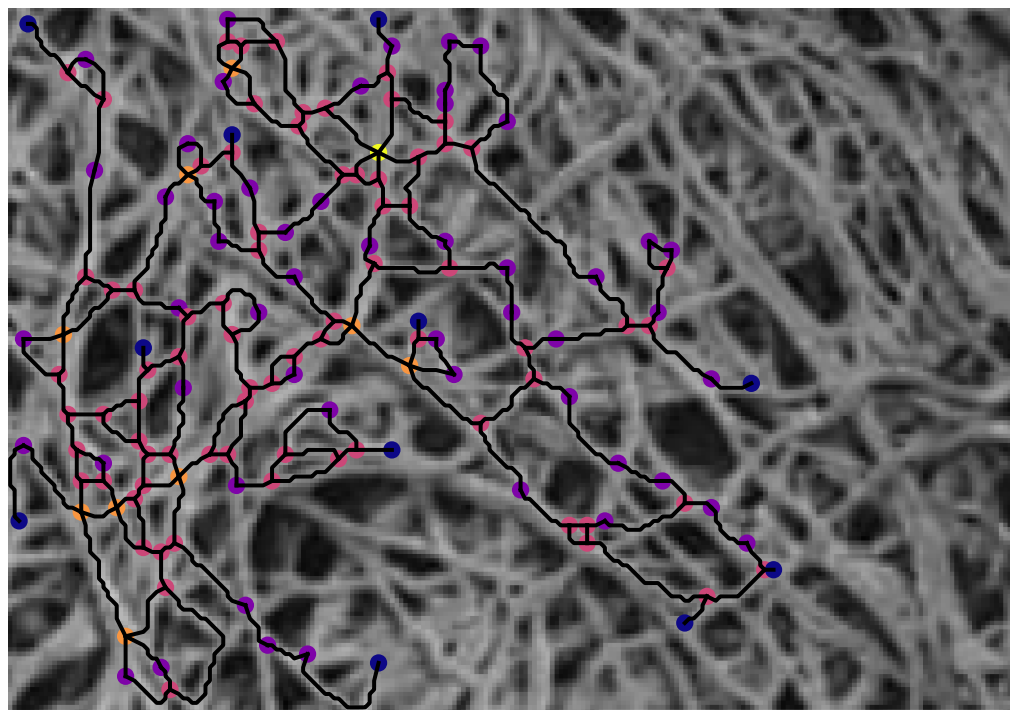
Length-Weighted Closeness: $\sigma=0.002$



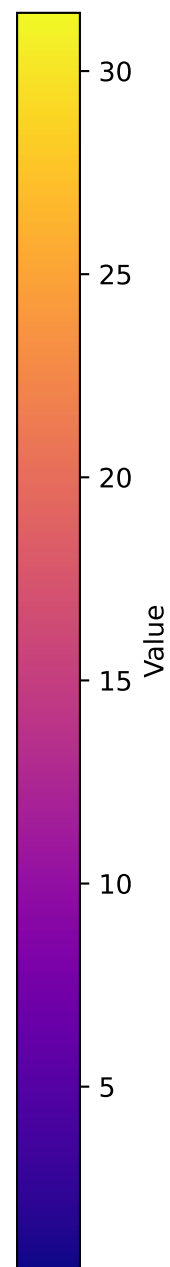
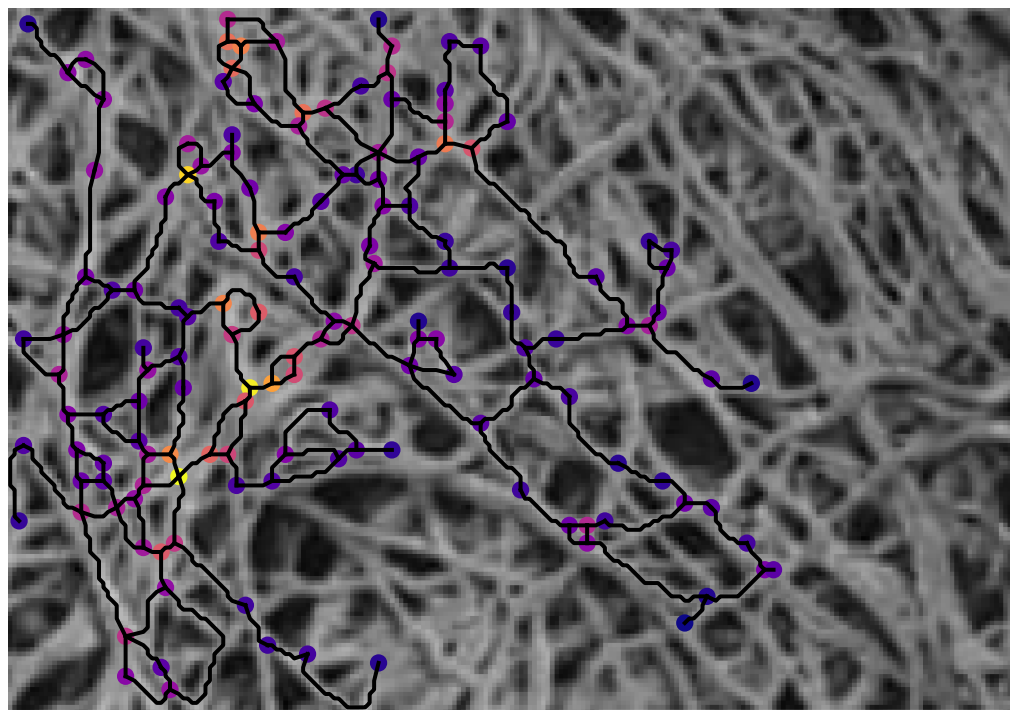
Diameter-Weighted Eigenvector Cent.: $\sigma=0.079$



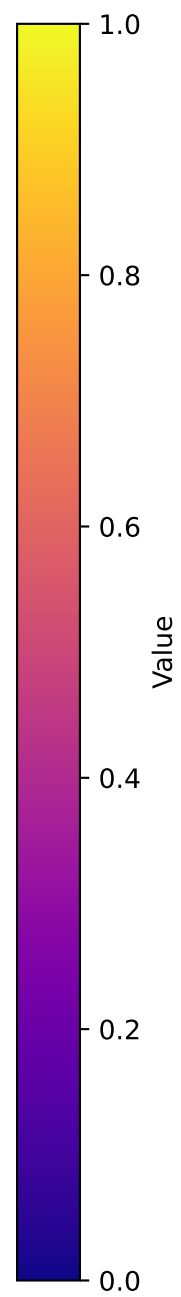
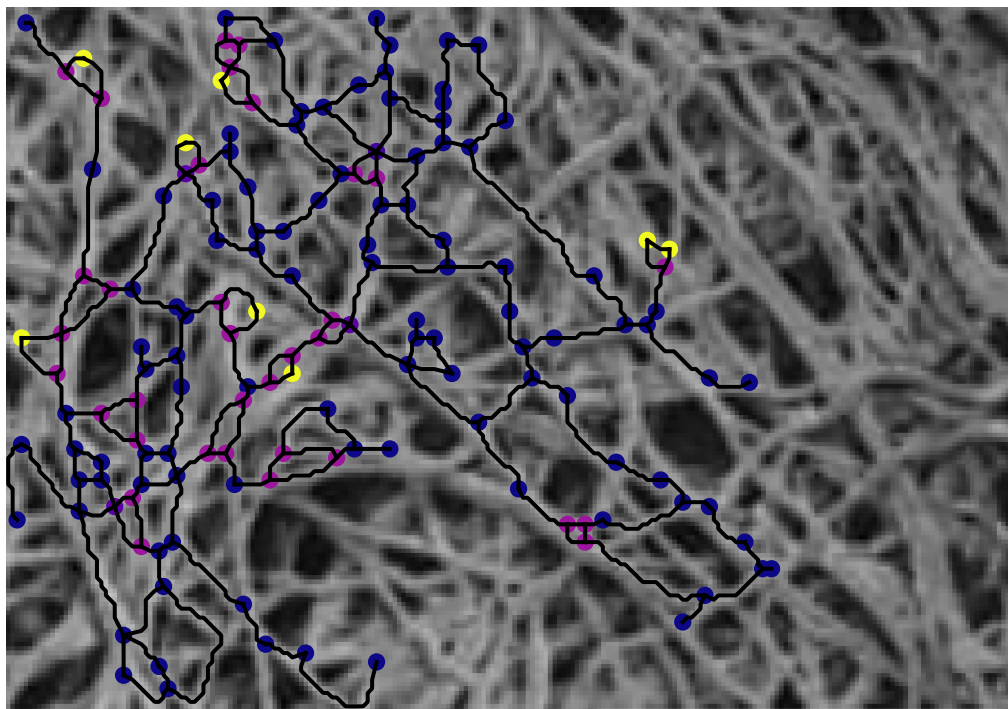
Degree Heatmap



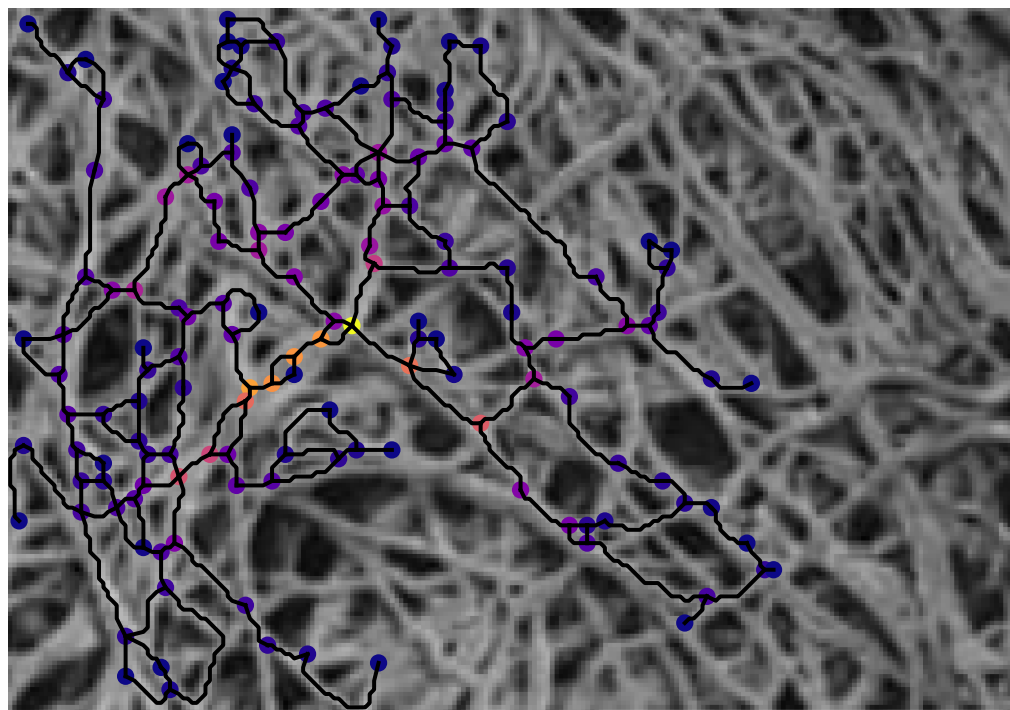
Weighted Degree Heatmap



Clustering Coefficient Heatmap



Betweenness Centrality Heatmap



Value

0.40

0.35

0.30

0.25

0.20

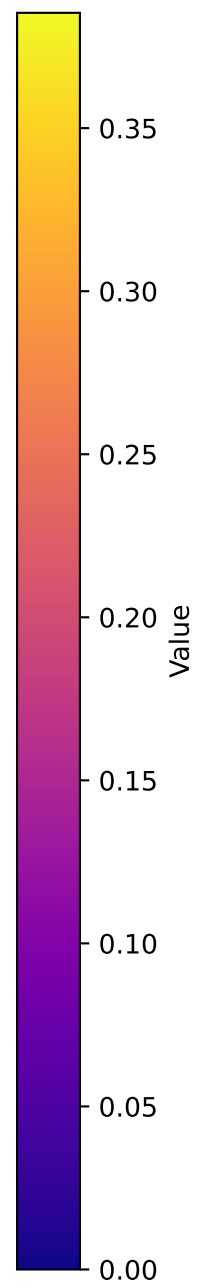
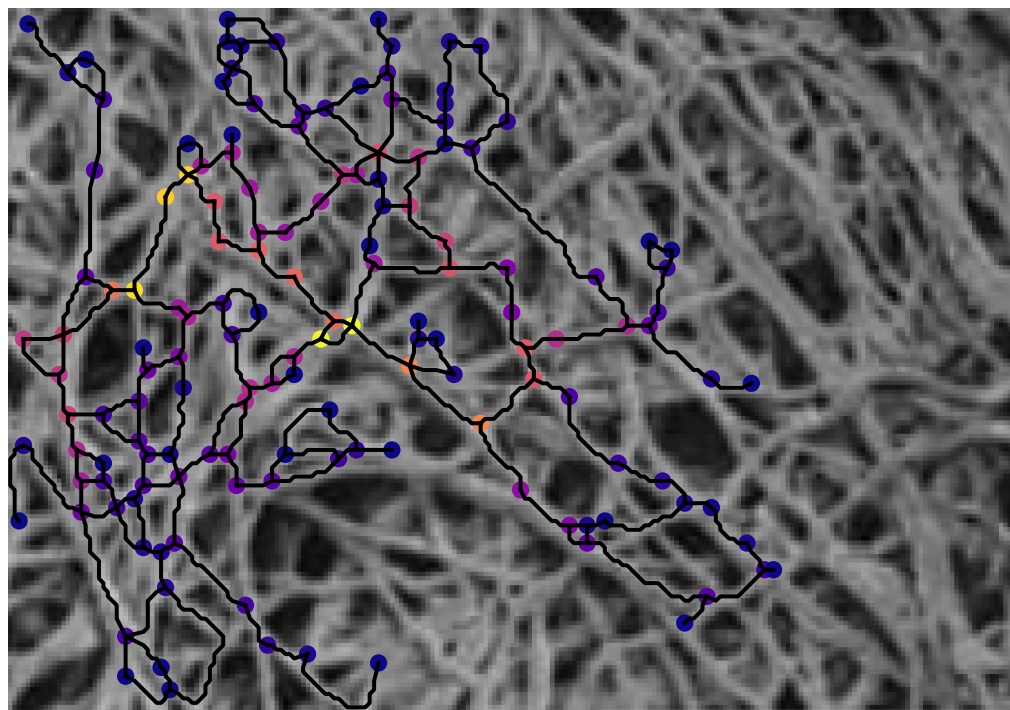
0.15

0.10

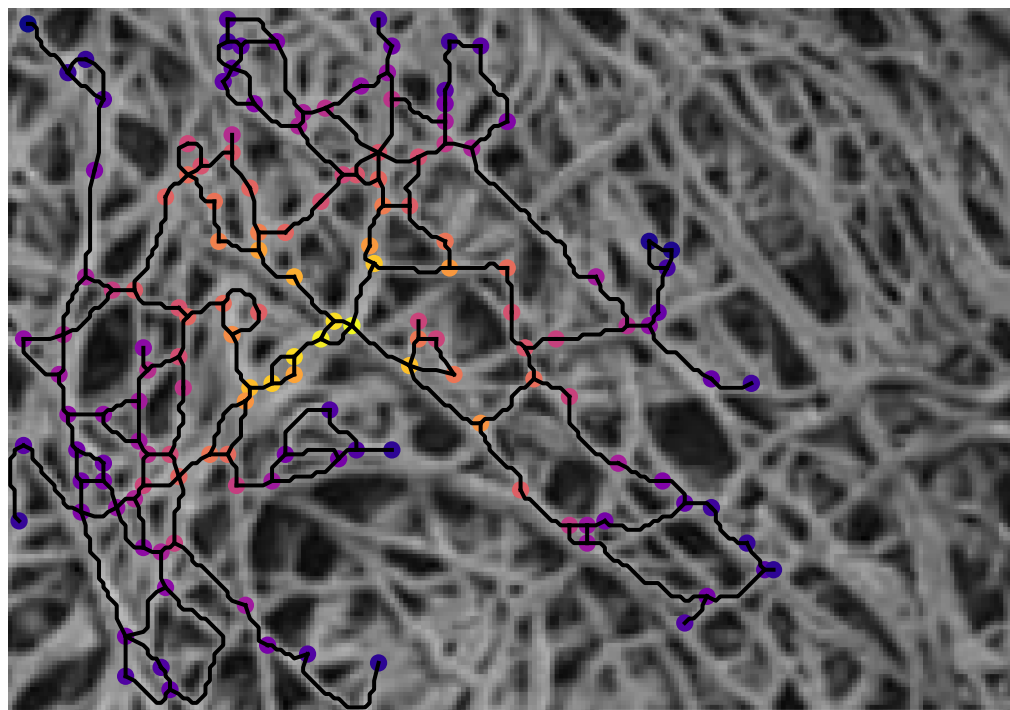
0.05

0.00

Diameter-Weighted Betweenness Centrality Heatmap



Closeness Centrality Heatmap



Value

0.13

0.12

0.11

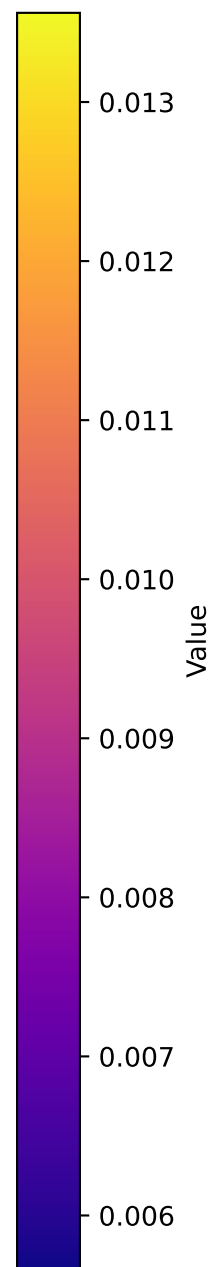
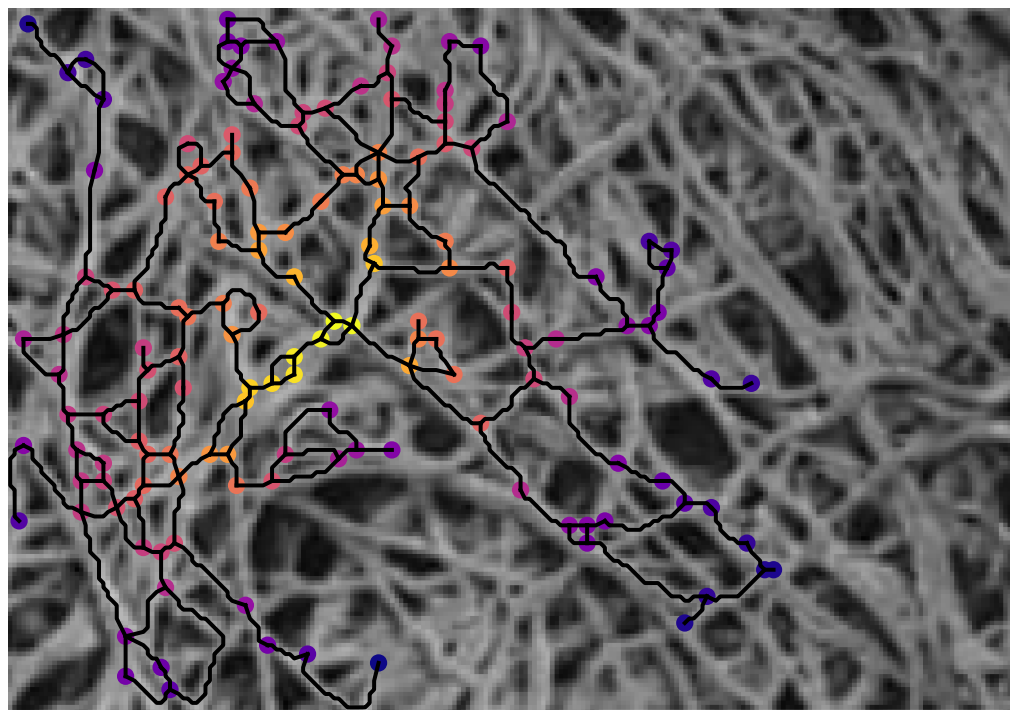
0.10

0.09

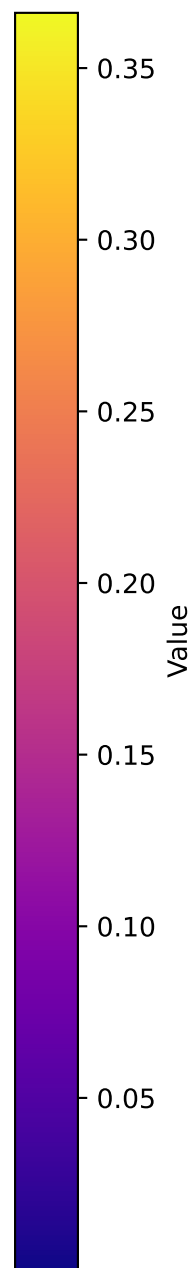
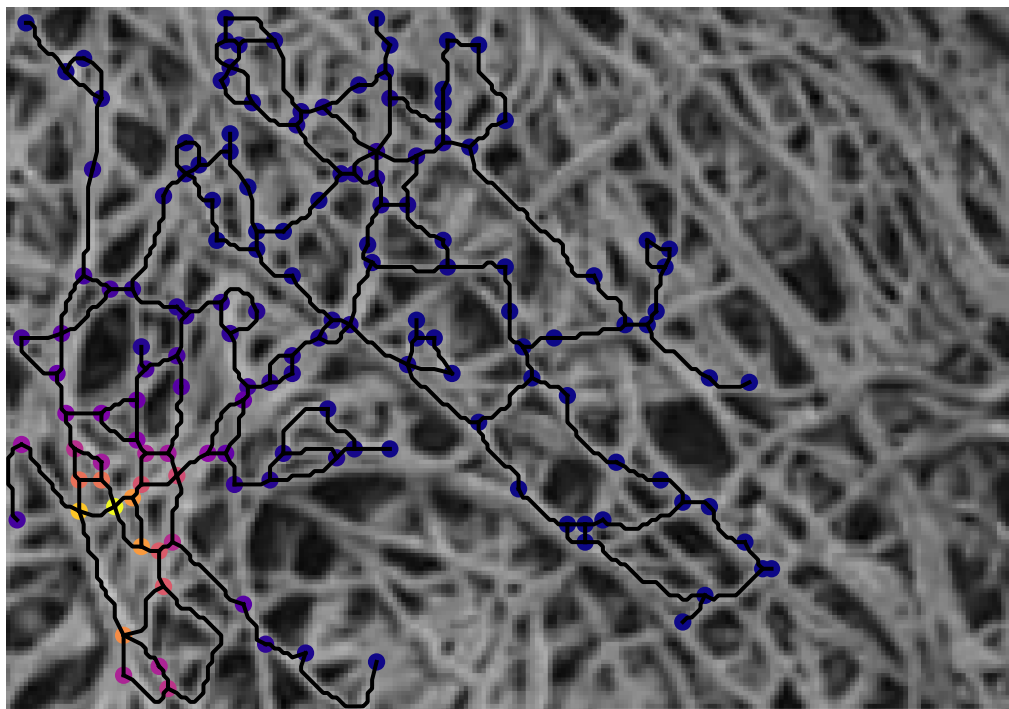
0.08

0.07

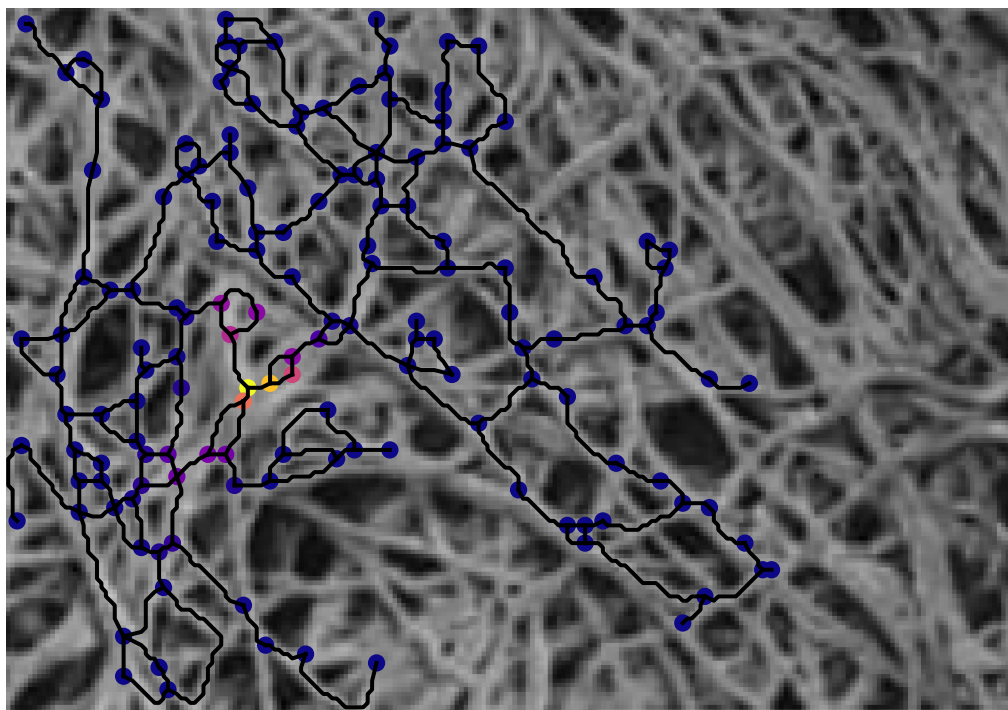
Length-Weighted Closeness Centrality Heatmap



Eigenvector Centrality Heatmap

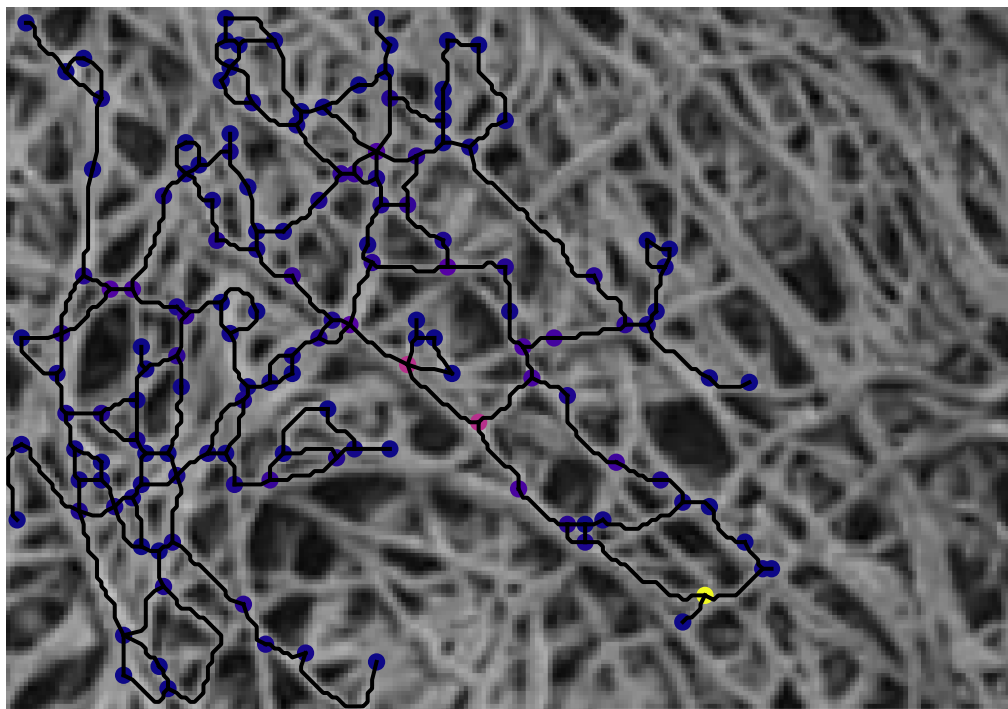


Diameter-Weighted Eigenvector Centrality Heatmap



Value

Ohms Centrality Heatmap



Run Info

InVitroBioFilm.png
2025-03-27 18:41:53

Image Filter Configurations
Global Threshold (127) || Gamma = 1.0

Microscopy Parameters
Scalebar Value = 0.0 nm || Scalebar Pixel Count = 1
Resistivity = 1.0Ωm

Image Scale
Size = 159 x 228 px || Scale Factor = 0.25

Graph Extraction Configurations
Weight Type: Diameter || Merge Nodes || Prune Dangling Edges
Remove Objects of Size = 500 || Remove Self Loops