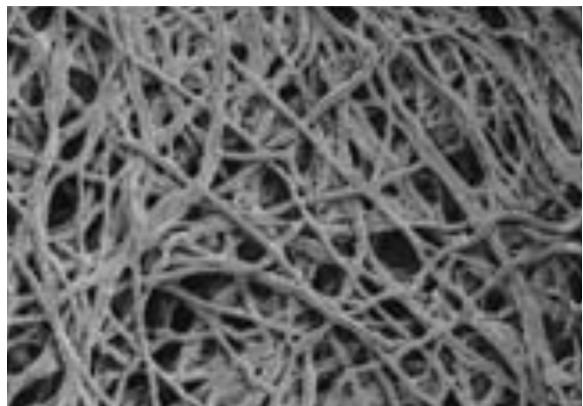
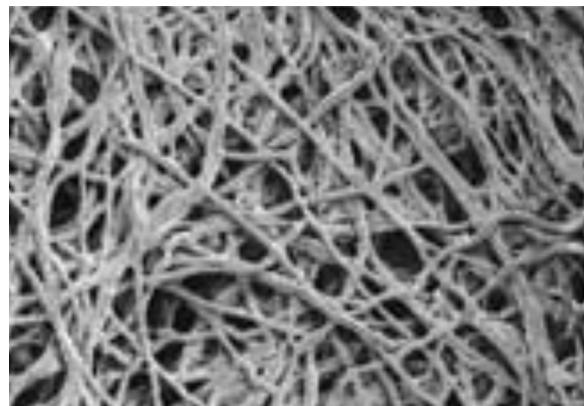


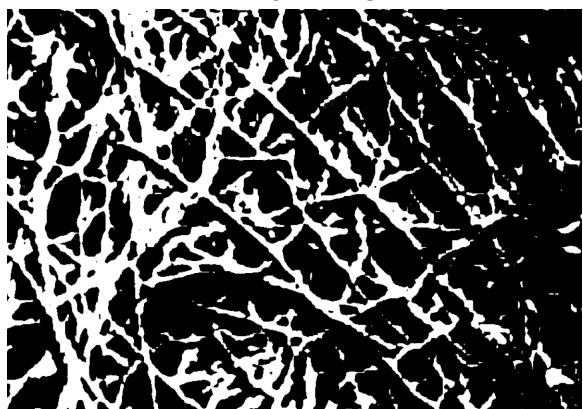
Original Image



Processed Image



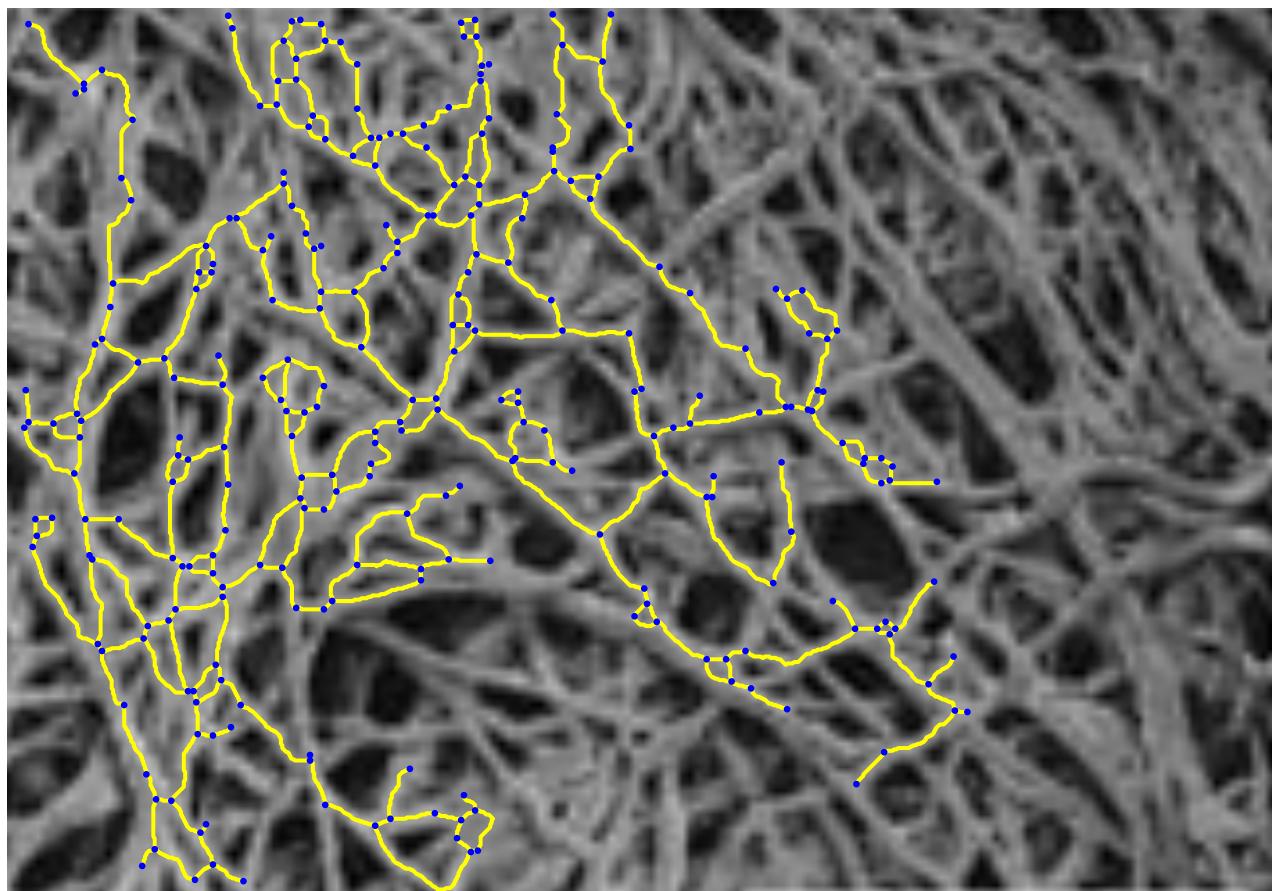
Binary Image



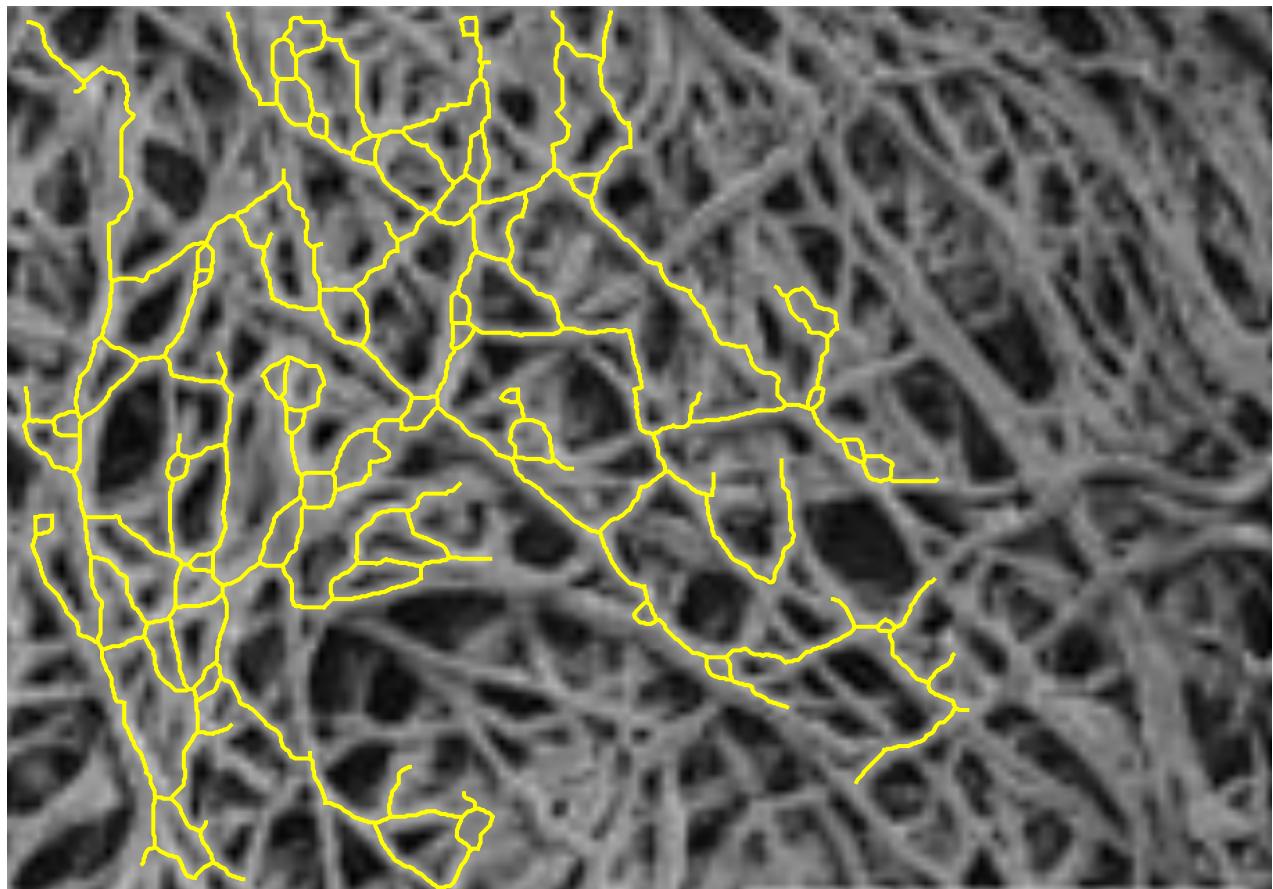
Histogram of Processed Image



Graph Node Plot



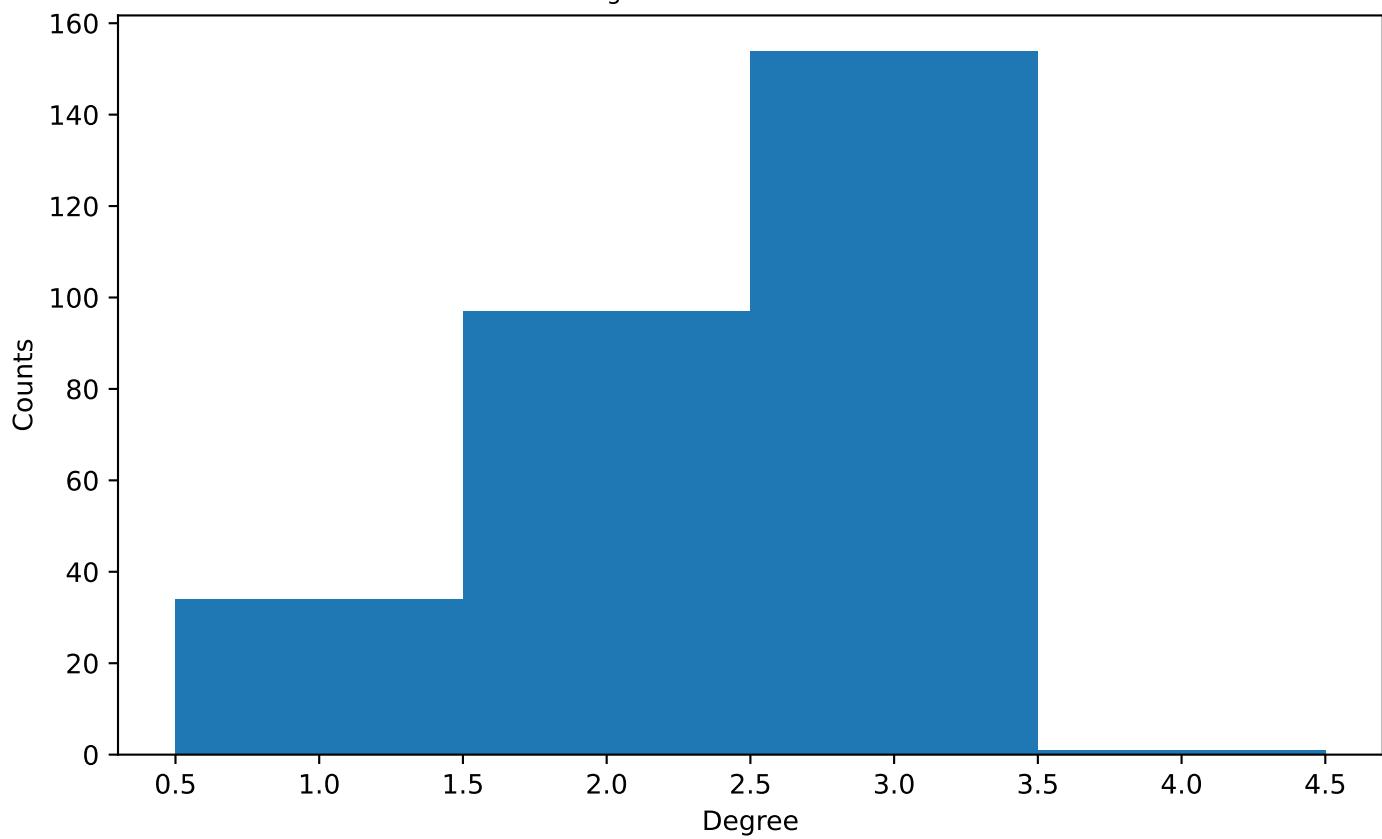
Graph Edge Plot

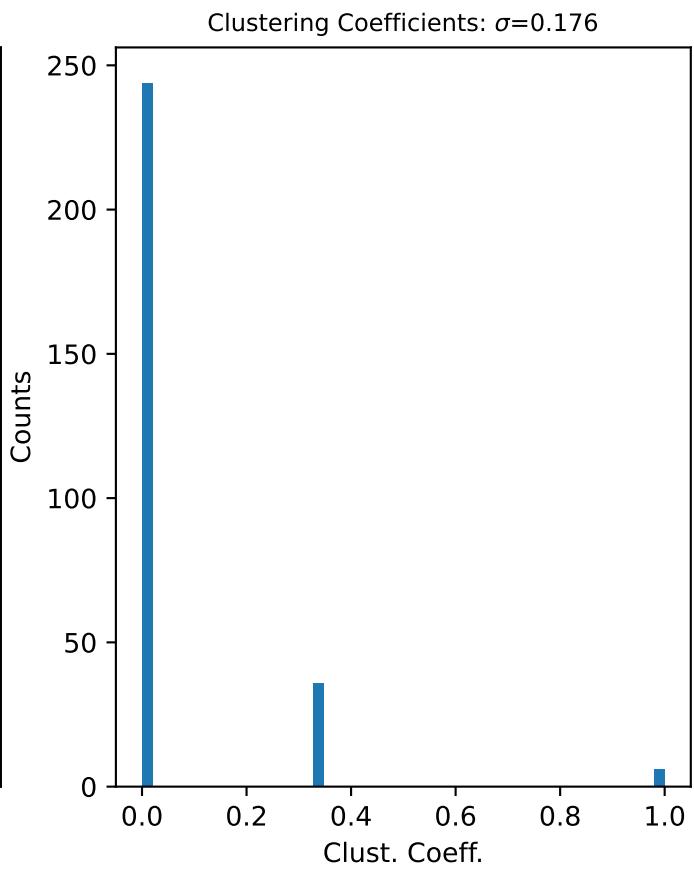
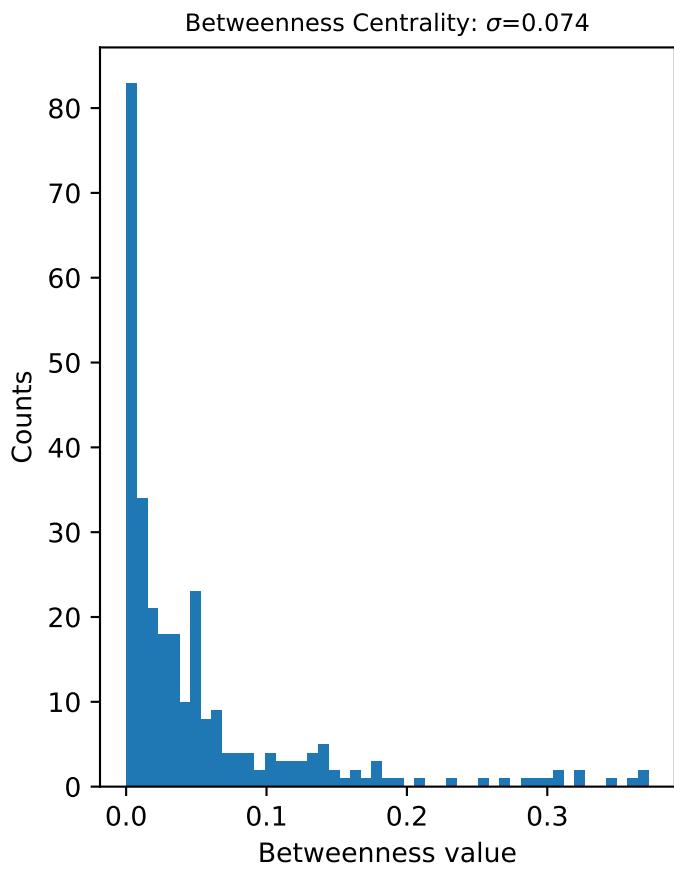


### Unweighted GT parameters

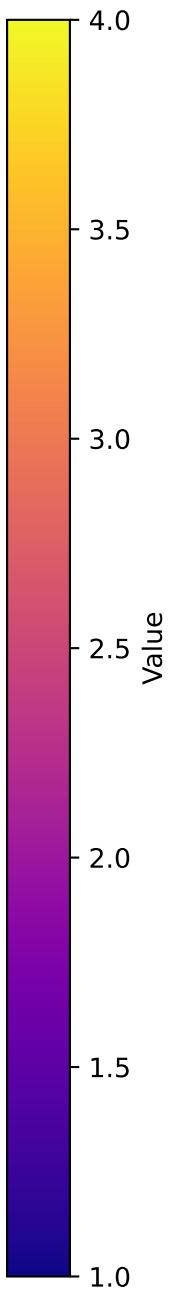
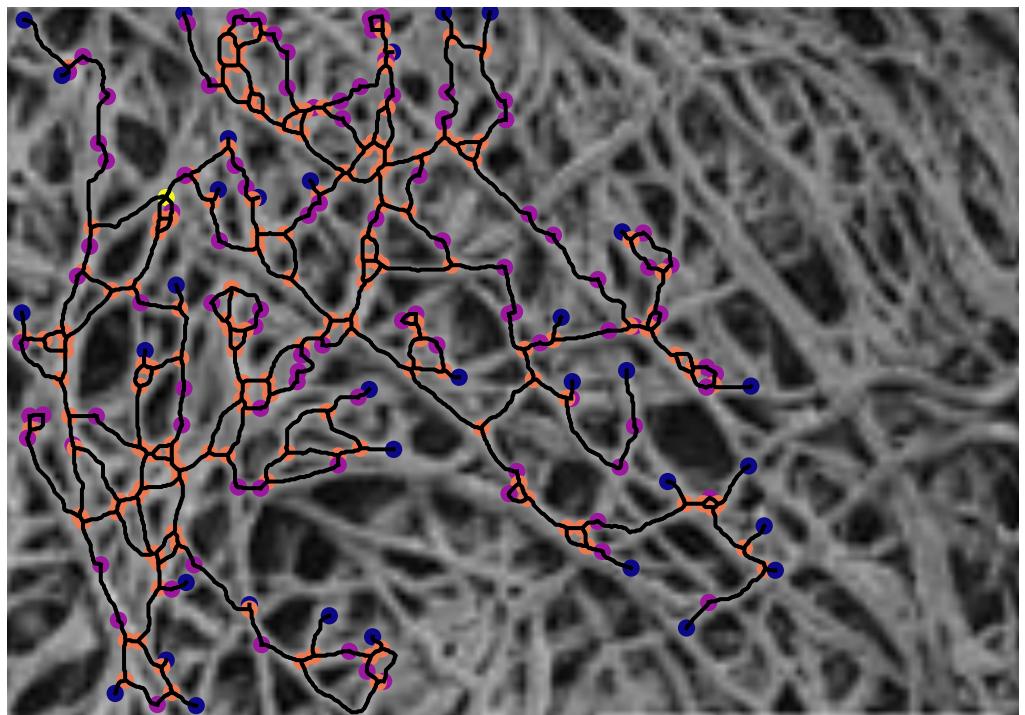
Number of nodes	286.0
Number of edges	347.0
Average edge angle (degrees)	164.153
Median edge angle (degrees)	87.138
Average degree	2.42657
Network diameter	35.0
Average node connectivity	1.18332
Graph density	0.00851
Assortativity coefficient	-0.02484
Average clustering coefficient	0.06294
Average betweenness centrality	0.05236

Degree Distribution:  $\sigma=0.701$

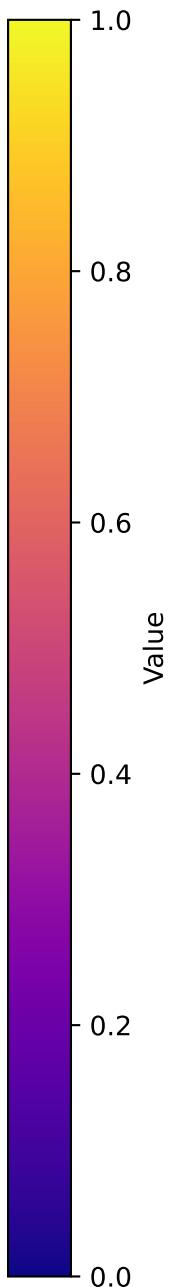
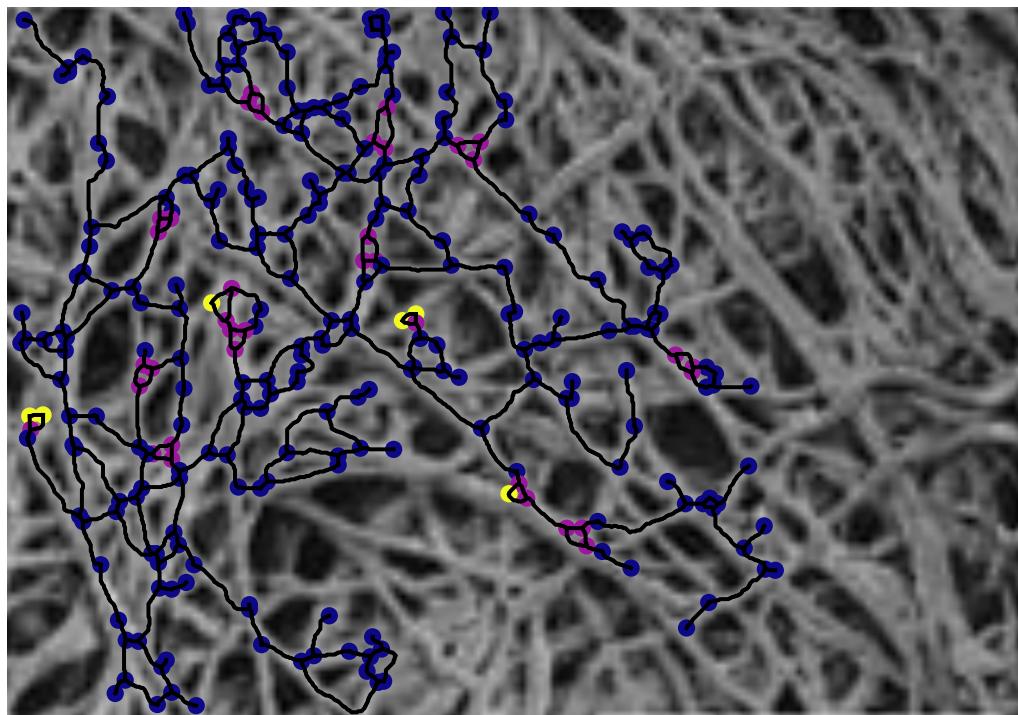




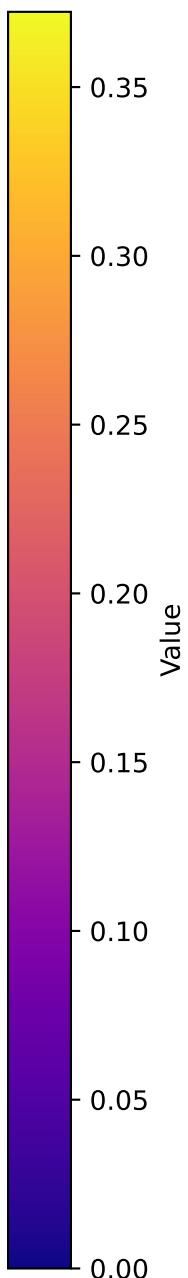
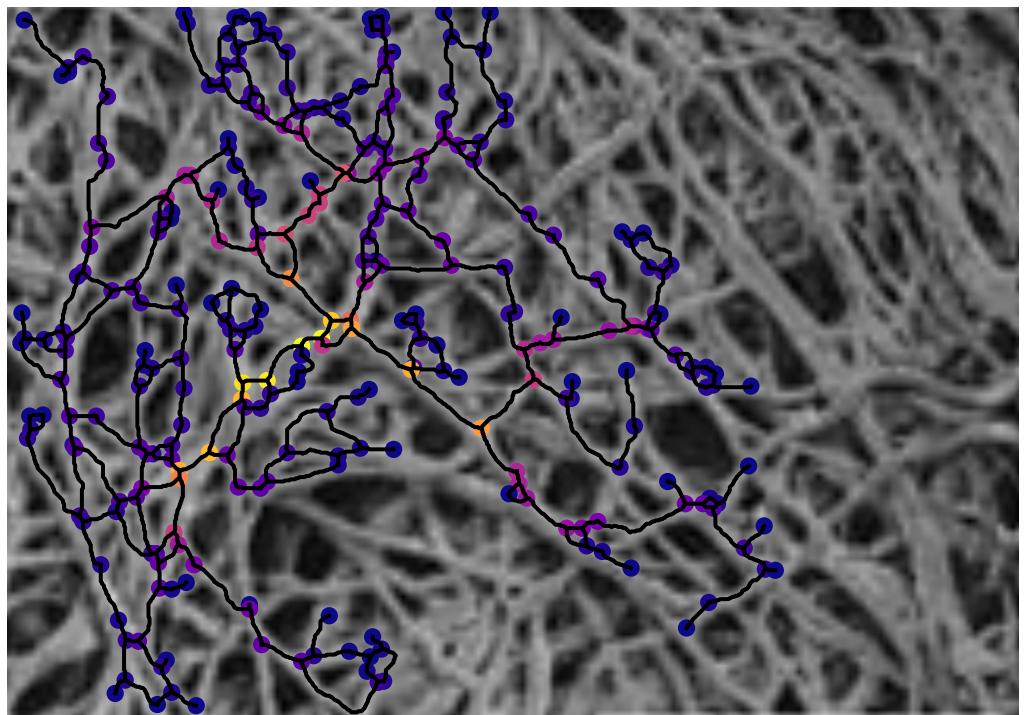
Degree Heatmap



Clustering Coefficient Heatmap



Betweenness Centrality Heatmap



## Run Info

InVitroBioFilm.png  
2025-06-04 16:04:00

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\*\*\*Image Filter Configurations\*\*\*  
Global Threshold (128.0) || Gamma = 1.0

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

\*\*\*Image Scale\*\*\*  
Size = 638 x 912 px || Scale Factor = 1.0

\*\*\*Graph Extraction Configurations\*\*\*  
Merge Nodes || Prune Dangling Edges  
Remove Objects of Size = 500 || Remove Self Loops