

Network Information & Vizualization

Network Properties

Total Nodes:	1000.0
Total Edges:	3984.0
Diameter:	5.0
Density:	0.008
Average Degree:	3.984
Characteristic Path Length:	3.17

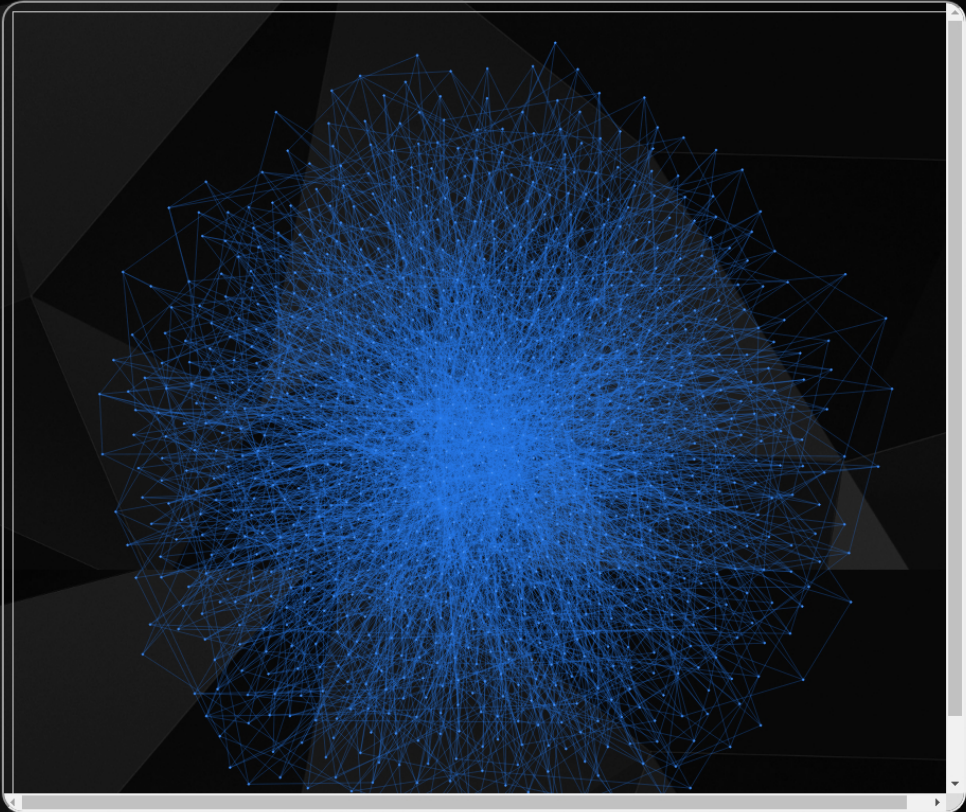
Tolerance

Attack

2.7 %

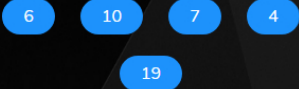
Failure

28.0 %

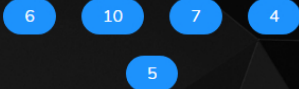


Most Crucial Nodes

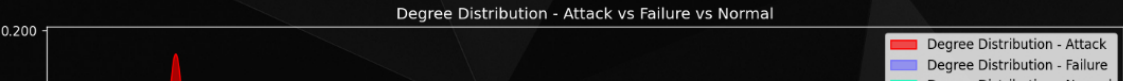
Based on Degree

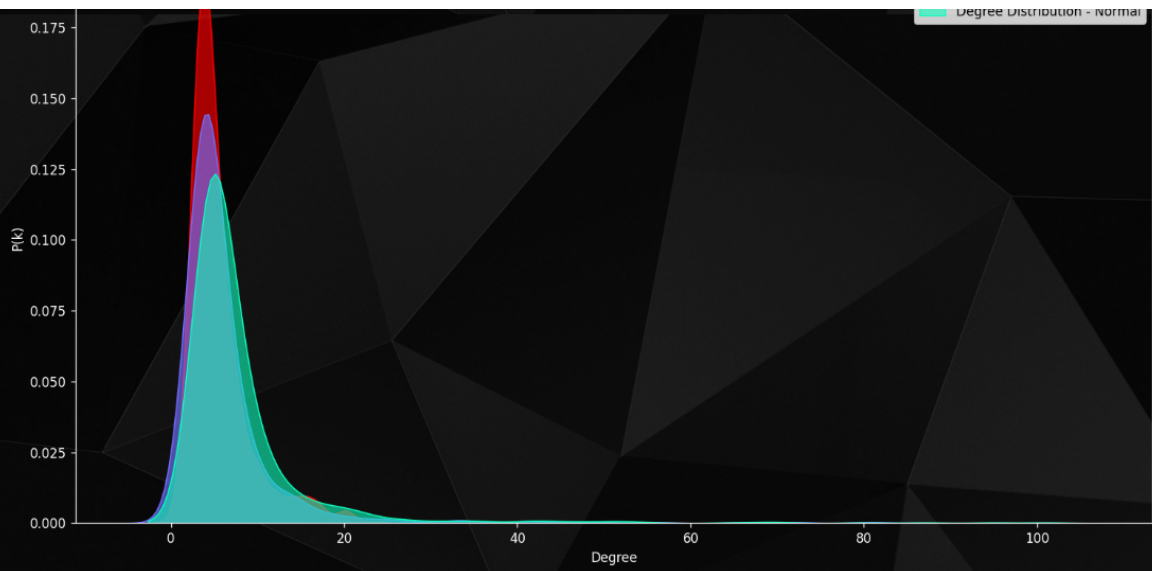


Based on Betweenness Centrality

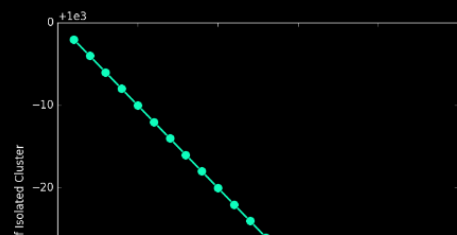
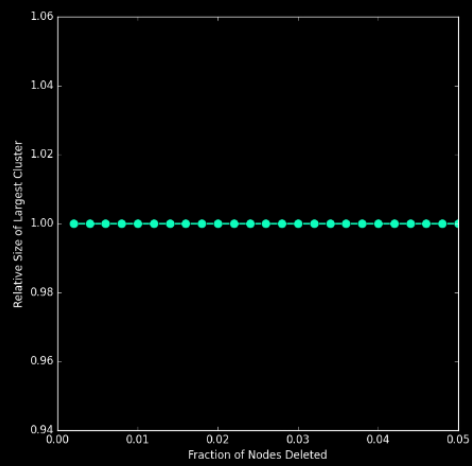
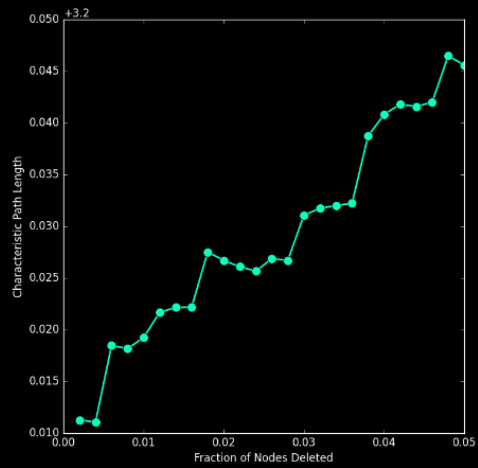


Error & Attack Tolerance Analysis

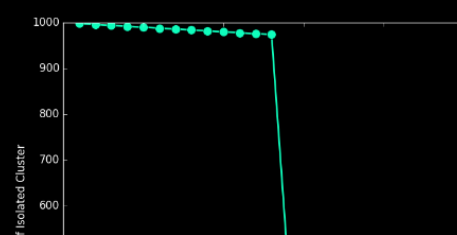
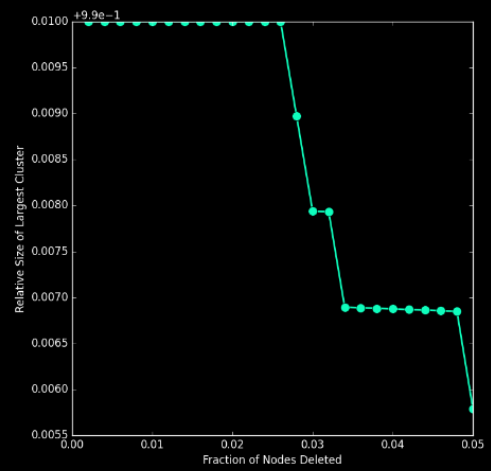
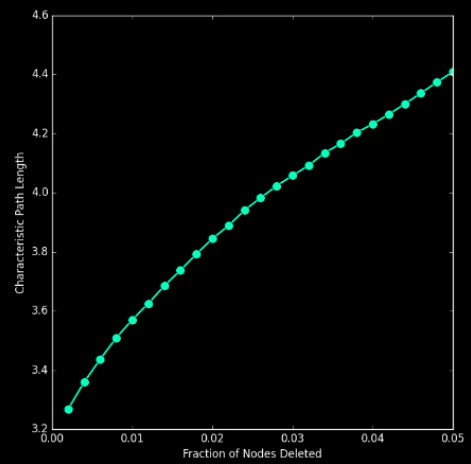


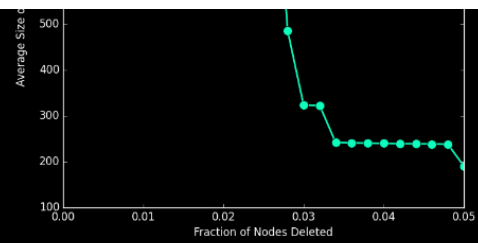
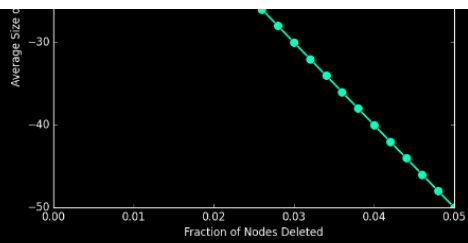


Failure Analysis



Attack Analysis





Recommended Optimized Network

We already know the crucial nodes based on their degree and Betweenness Centrality. Any damage to these nodes either by error or attack will result in damage to the whole network. To save ourselves from such situations, we can take backups of these nodes. This will increase the tolerance of the network.

You can download the updated network file from below.

[Download Recommended Network](#)