Tolyzer Home About

Network Information & Vizualization

Network Properties

 Total Nodes:
 1006.0

 Total Edges:
 4525.0

 Diameter:
 5.0

 Density:
 0.009

 Average Degree:
 4.498

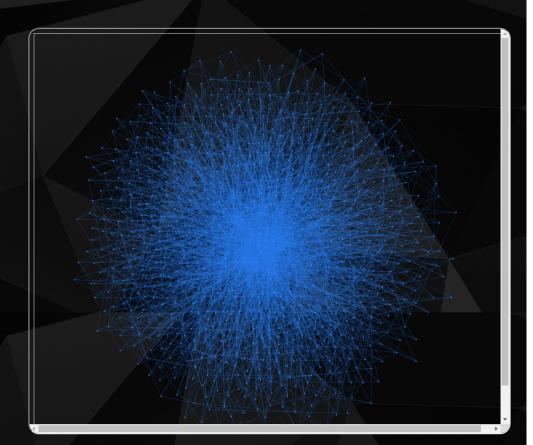
 Characteristic Path Length:
 3.14

Tolerance

Attack

3.3%

7 Failure 21.4%

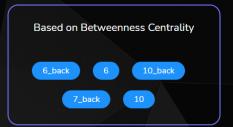


Most Crucial Nodes

Based on Degree

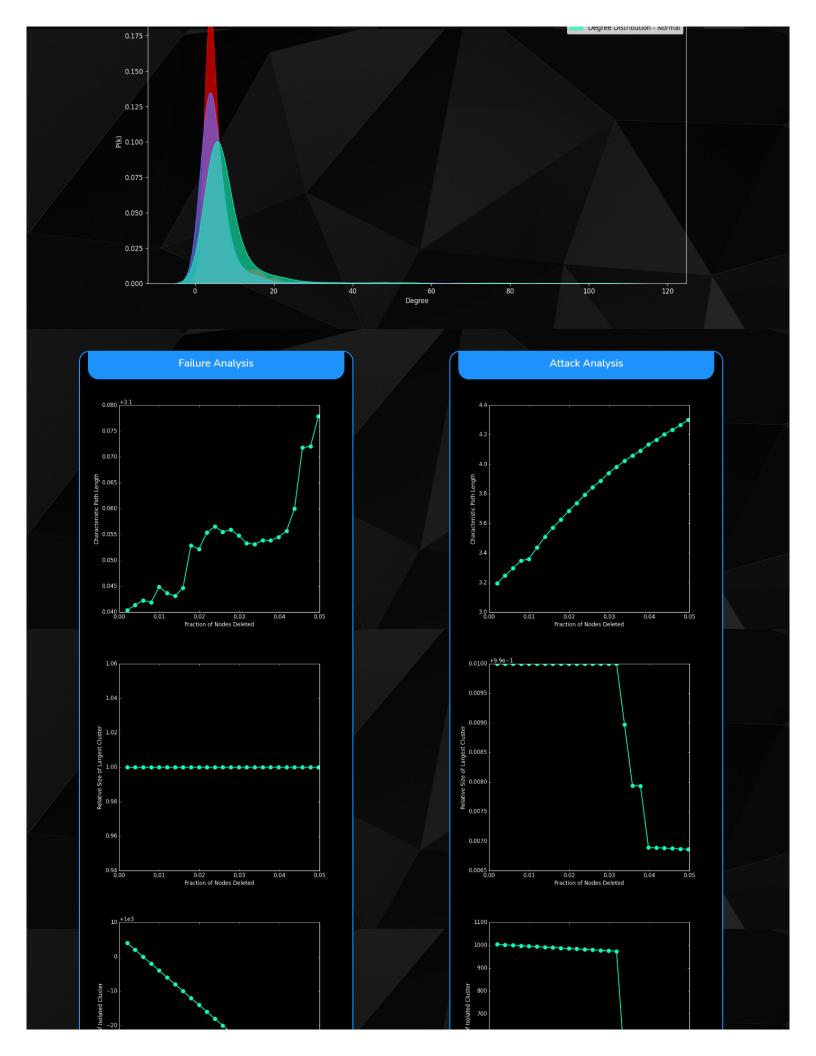
6_back
6 10_back

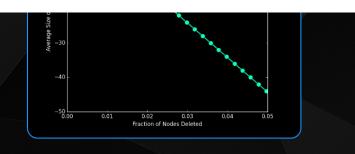
10 7_back

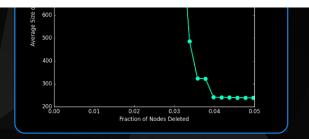


Error & Attack Tolerance Analysis

Degree Distribution - Attack vs Failure vs Normal







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